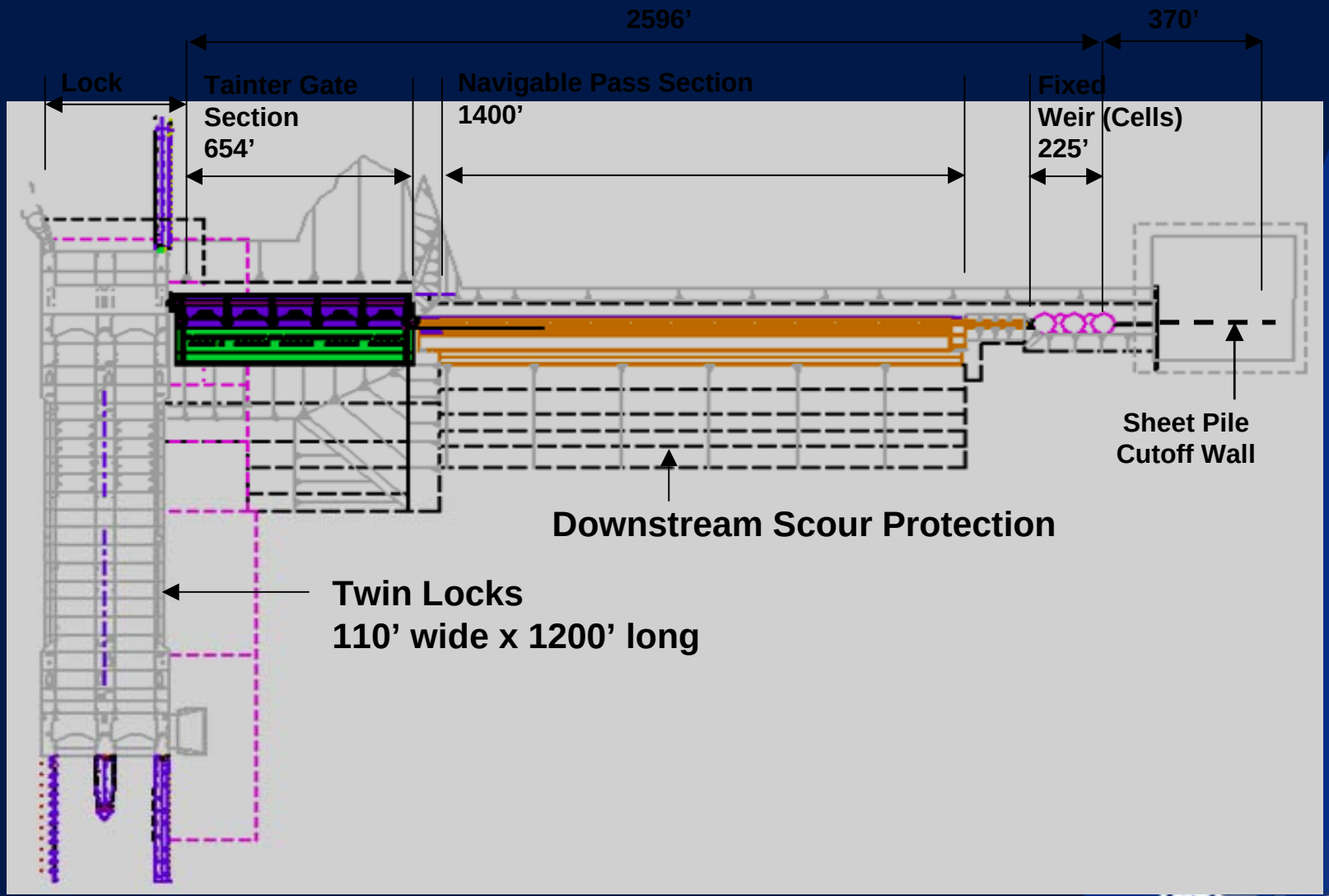
# Rendering of Completed Lock & Dam

Ben C. Gerwick, Inc.

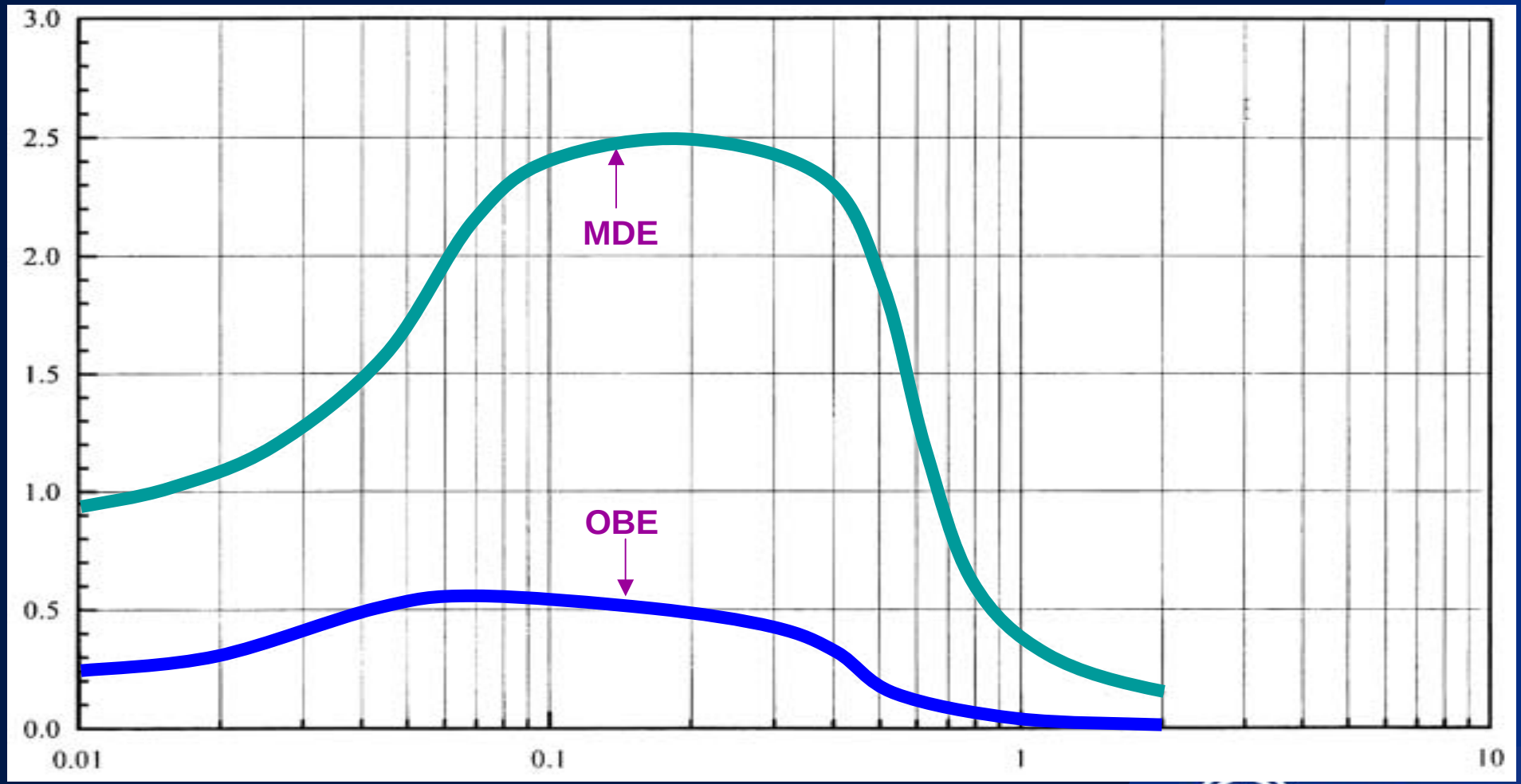
# Major Project Components




Ben C. Gerwick, Inc.

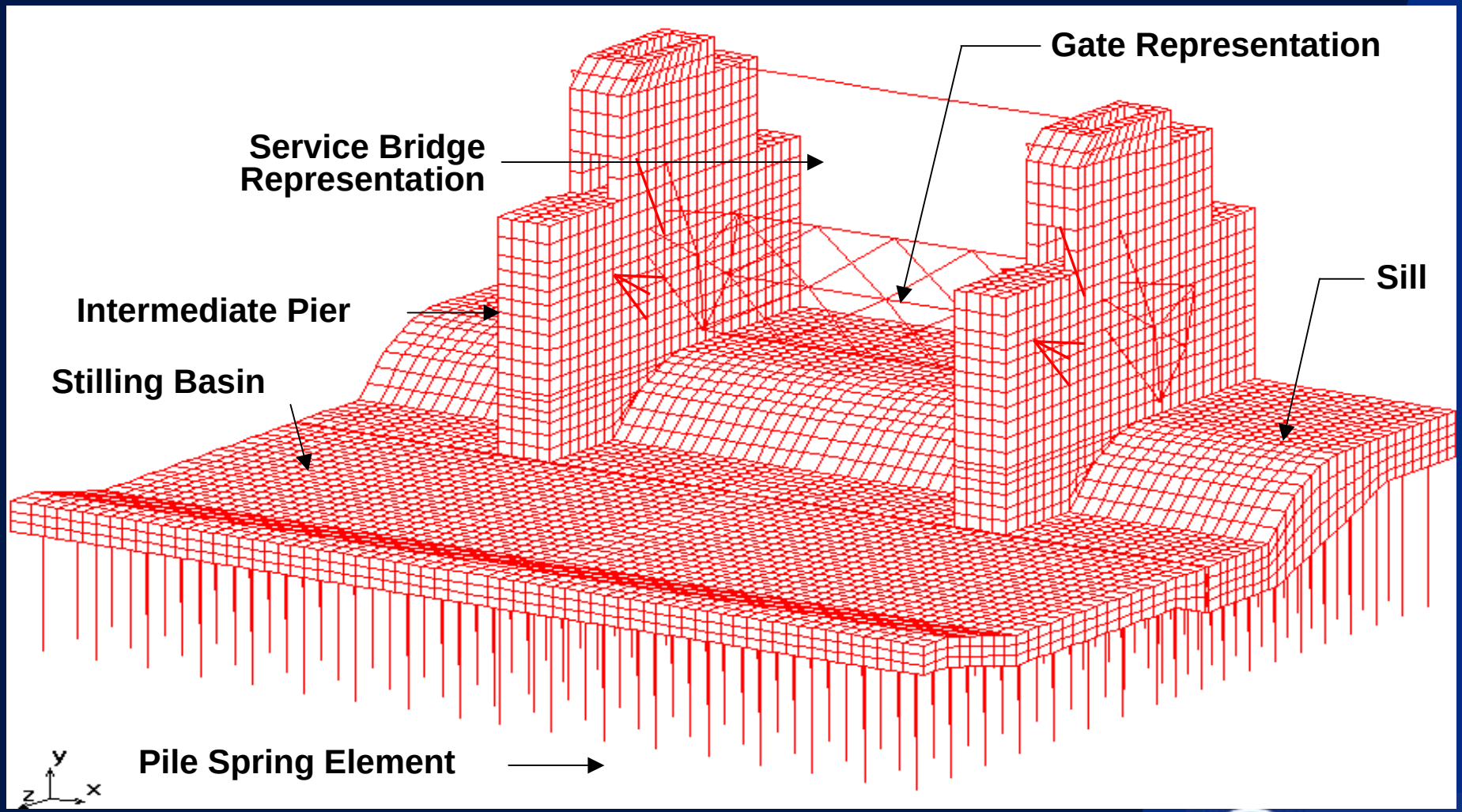
# Level 2 - Response Spectrum Method

**(Horiz. Response Spectra at Mudline)**



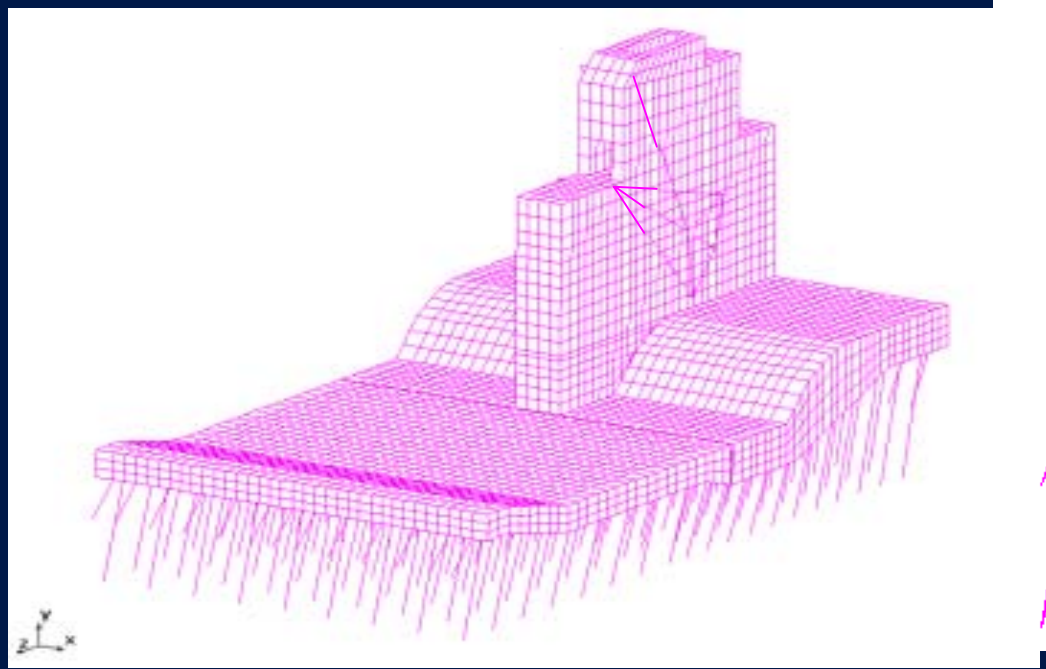

Ben C. Gerwick, Inc.

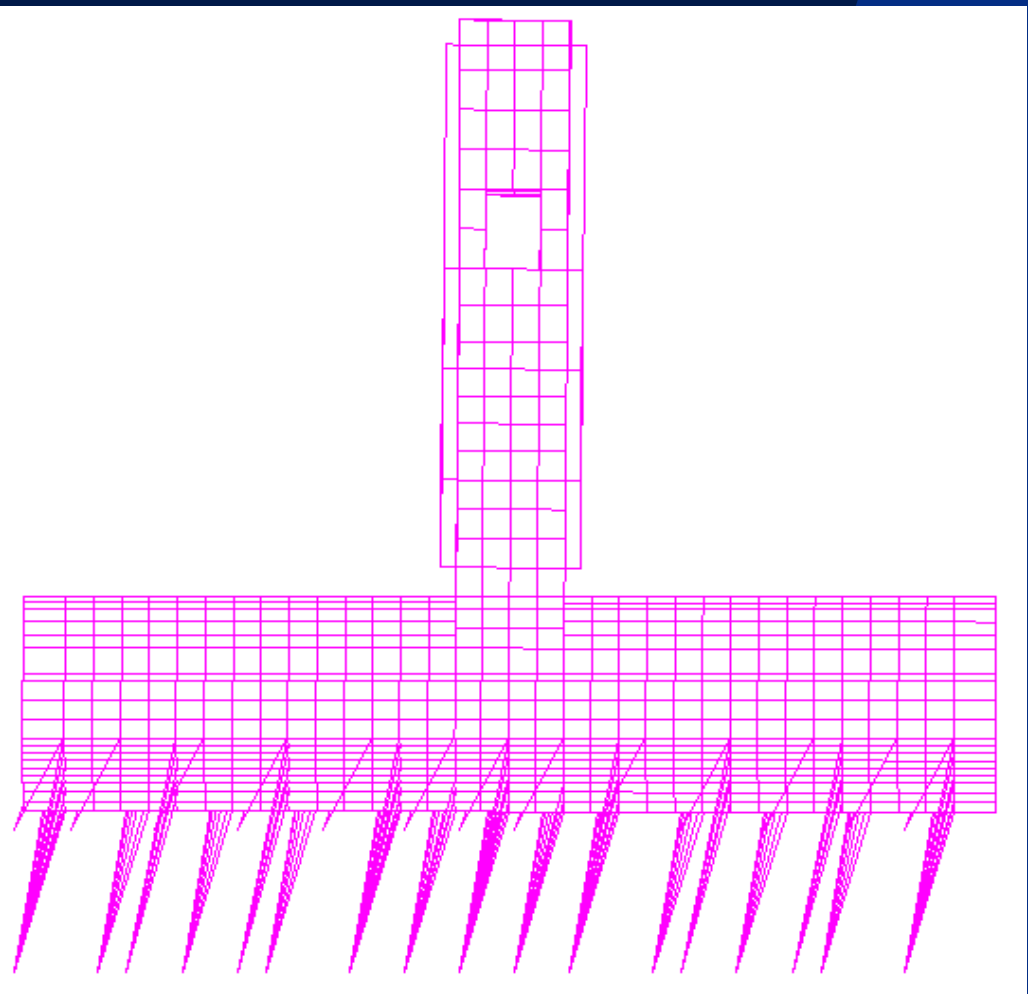
# Model for 2 Dam Gate Bays – Tainter Gate Section



# Single Dam Gate Bay Model for Seismic Analysis – Primary Transverse Mode Shape

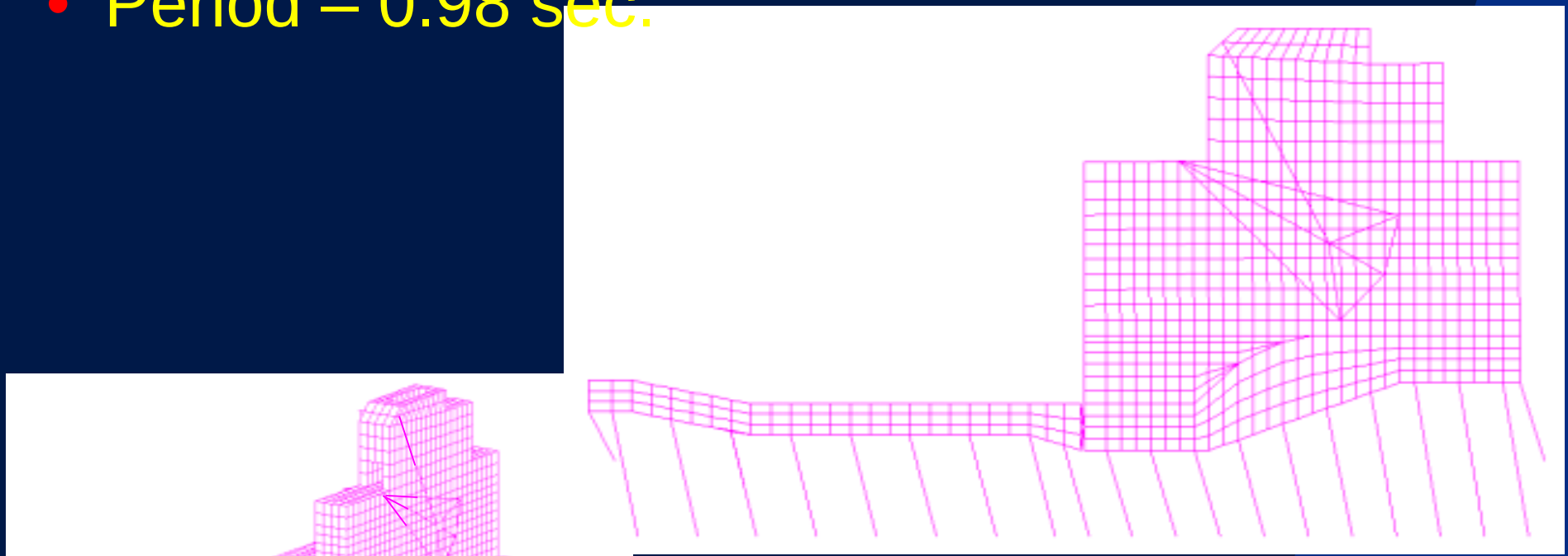
- Period – 0.99 sec.

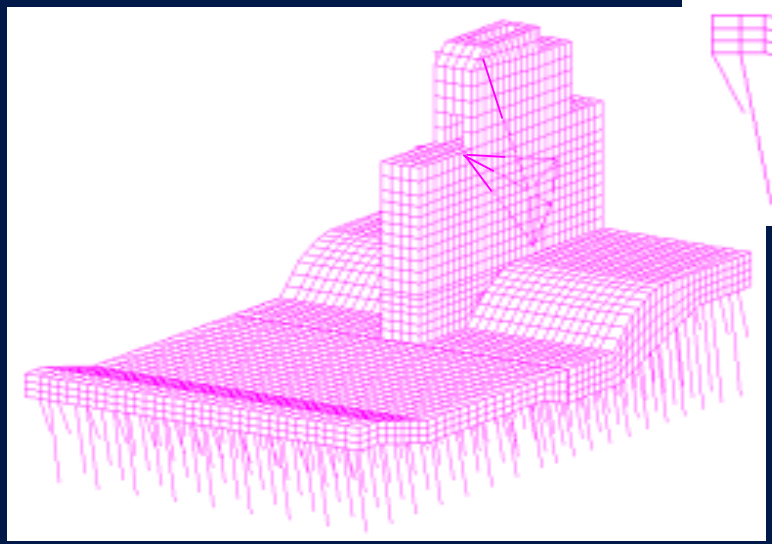




# Single Dam Gate Bay Model for Seismic Analysis Primary Logitudinal Mode Shape

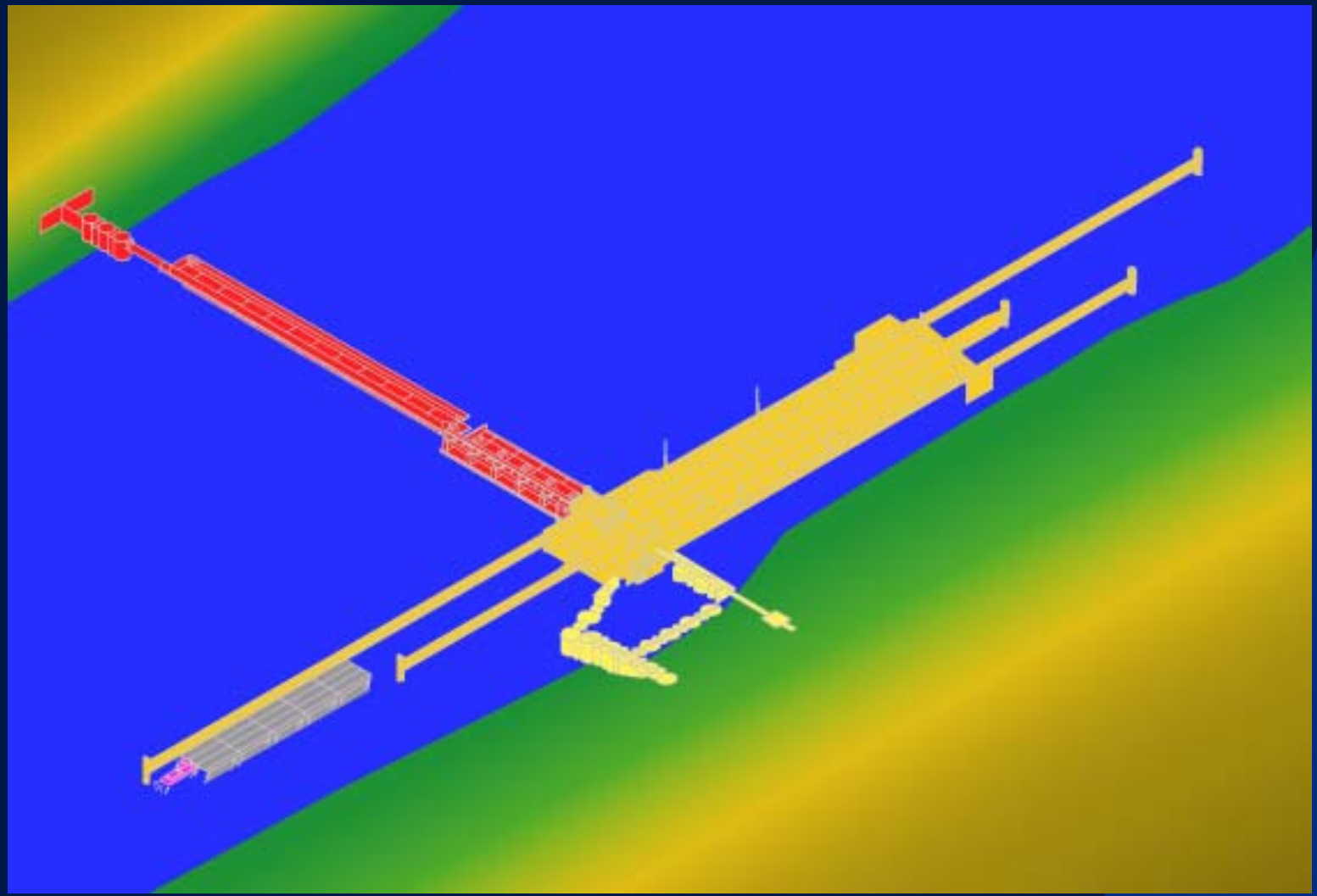
- Period – 0.98 sec.



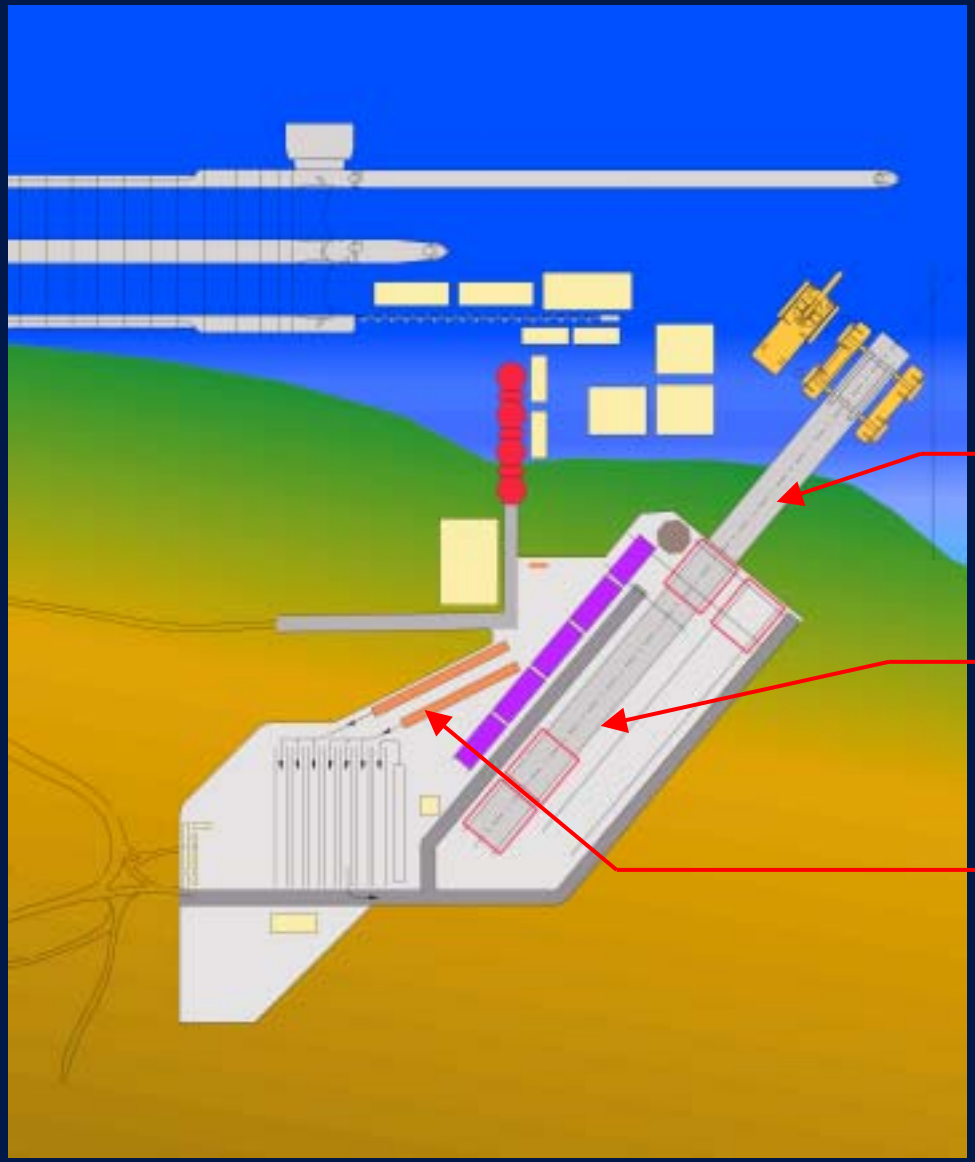


Ben C. Gerwick, Inc.

# Olmsted Dam Completed Construction

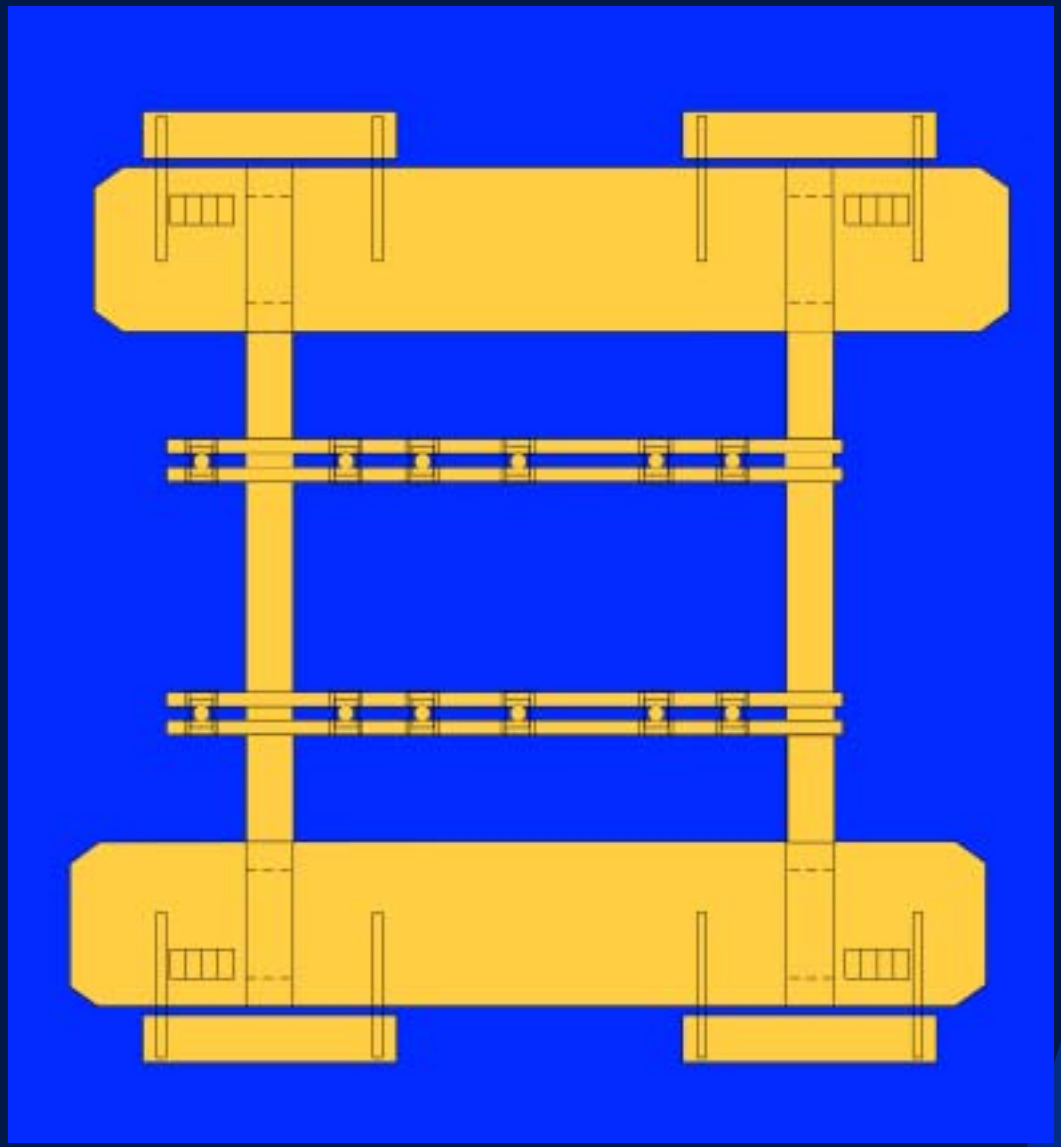


# Precast Yard - General Site Plan




Ben C. Gerwick, Inc.

# Catamaran Barge



2800 TON
LIFTING
CAPACITY

Ben C. Gerwick, Inc.

# Catamaran 3,000 ton Lift

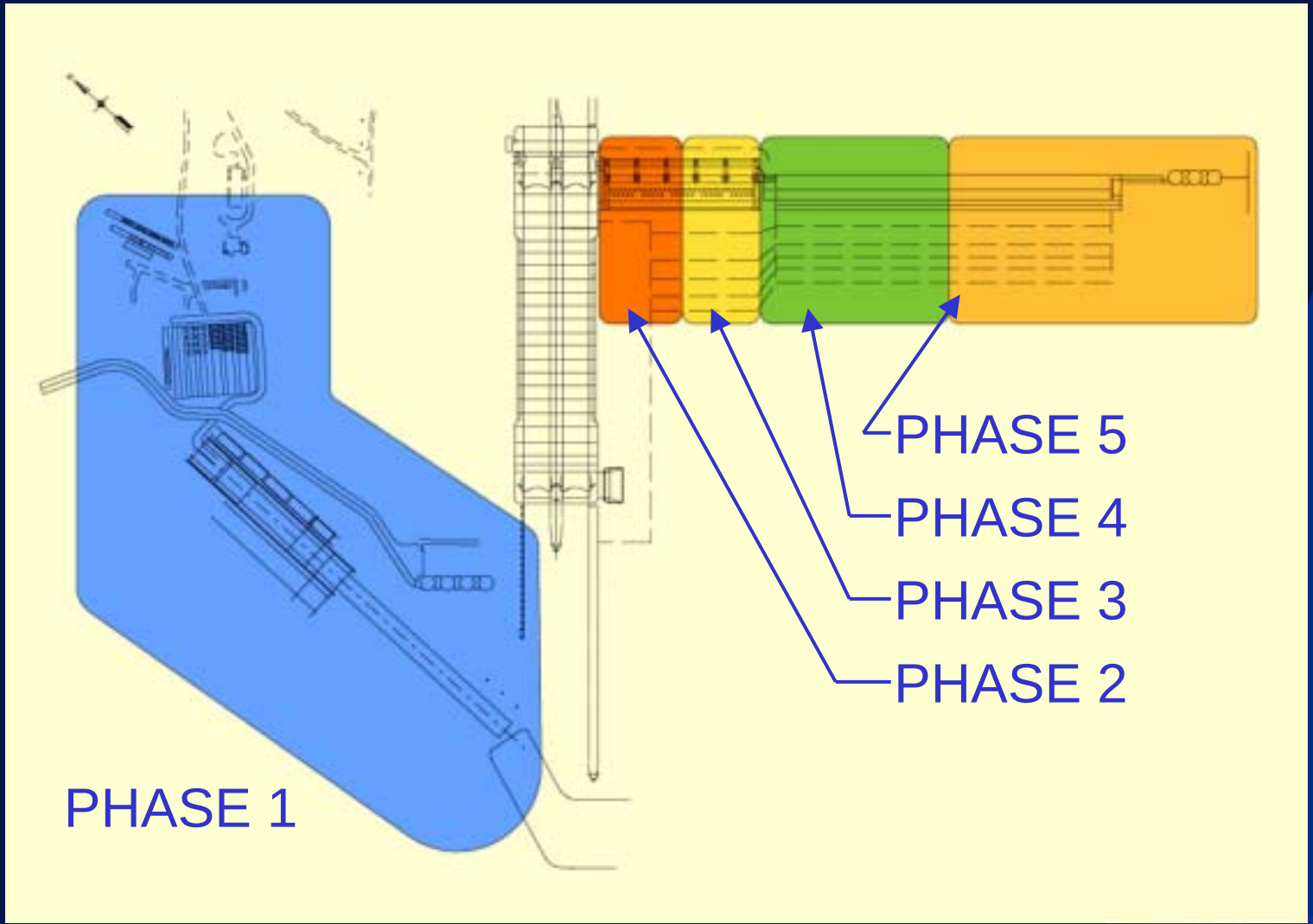


Ben C. Gerwick, Inc.

# Strand Jacks Used for Oresund

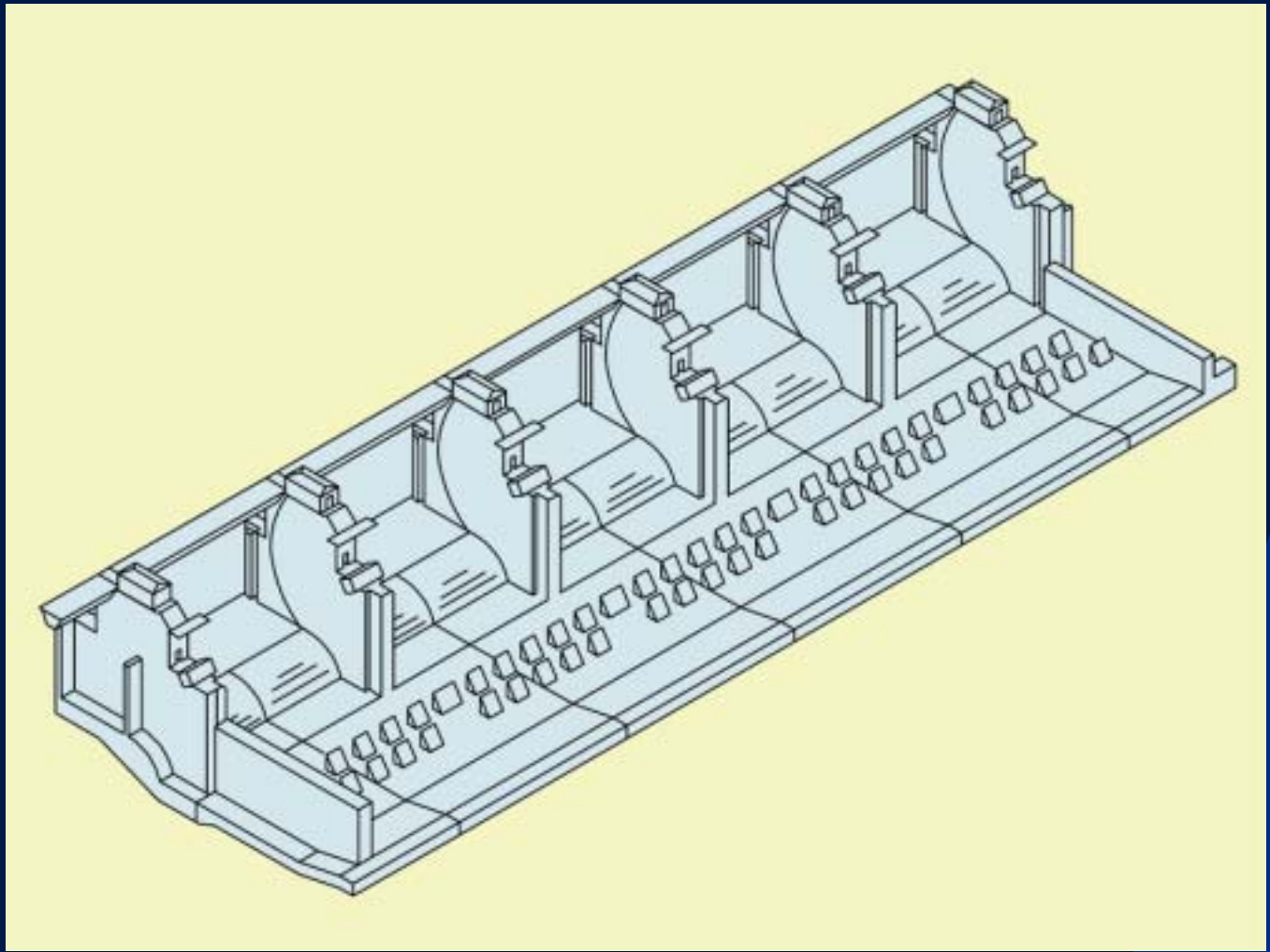

Ben C. Gerwick, Inc.

# Global Erection Plan Phases 1,2,3,4,and 5



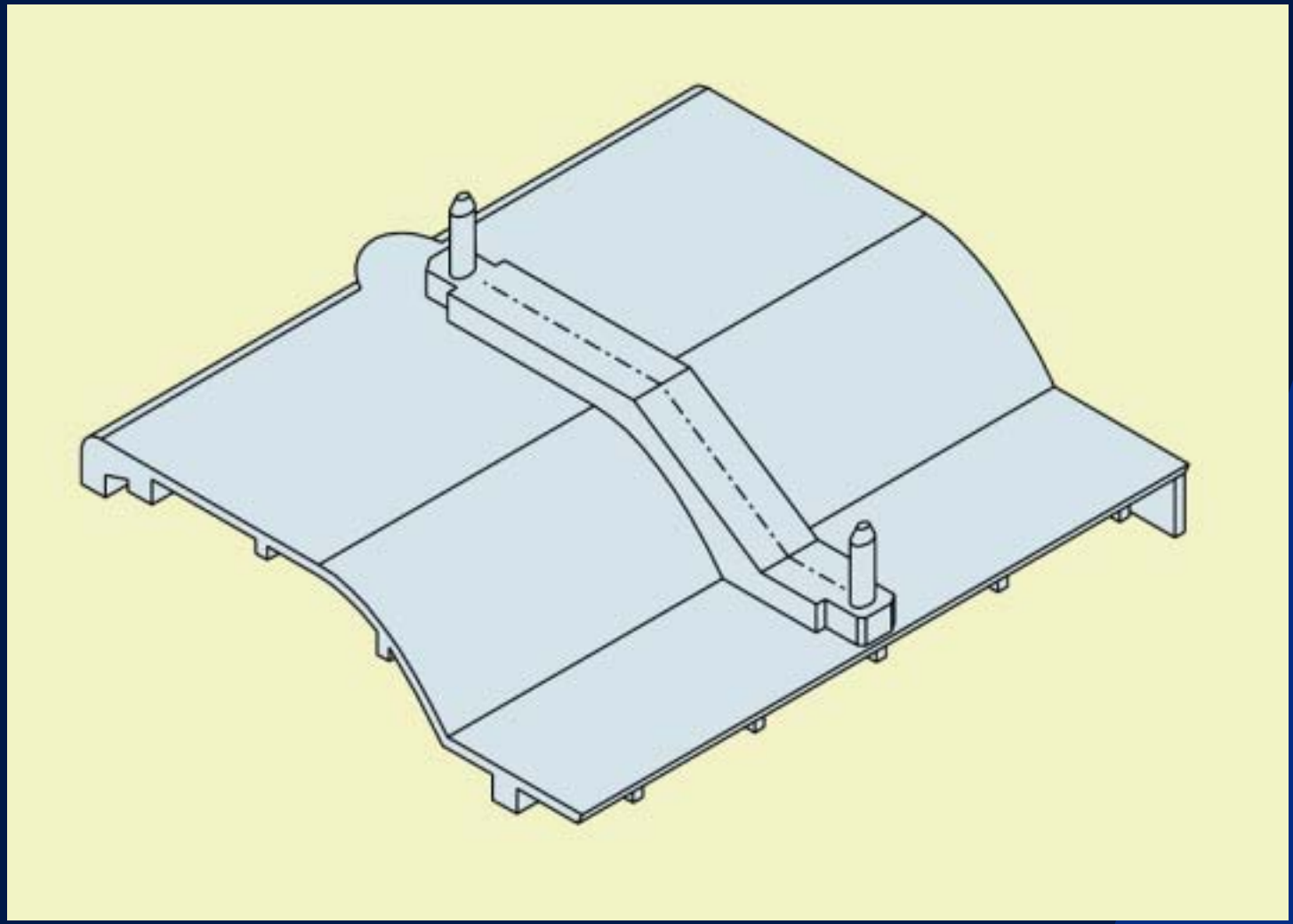

Ben C. Gerwick, Inc.

# Tainter Gate Section



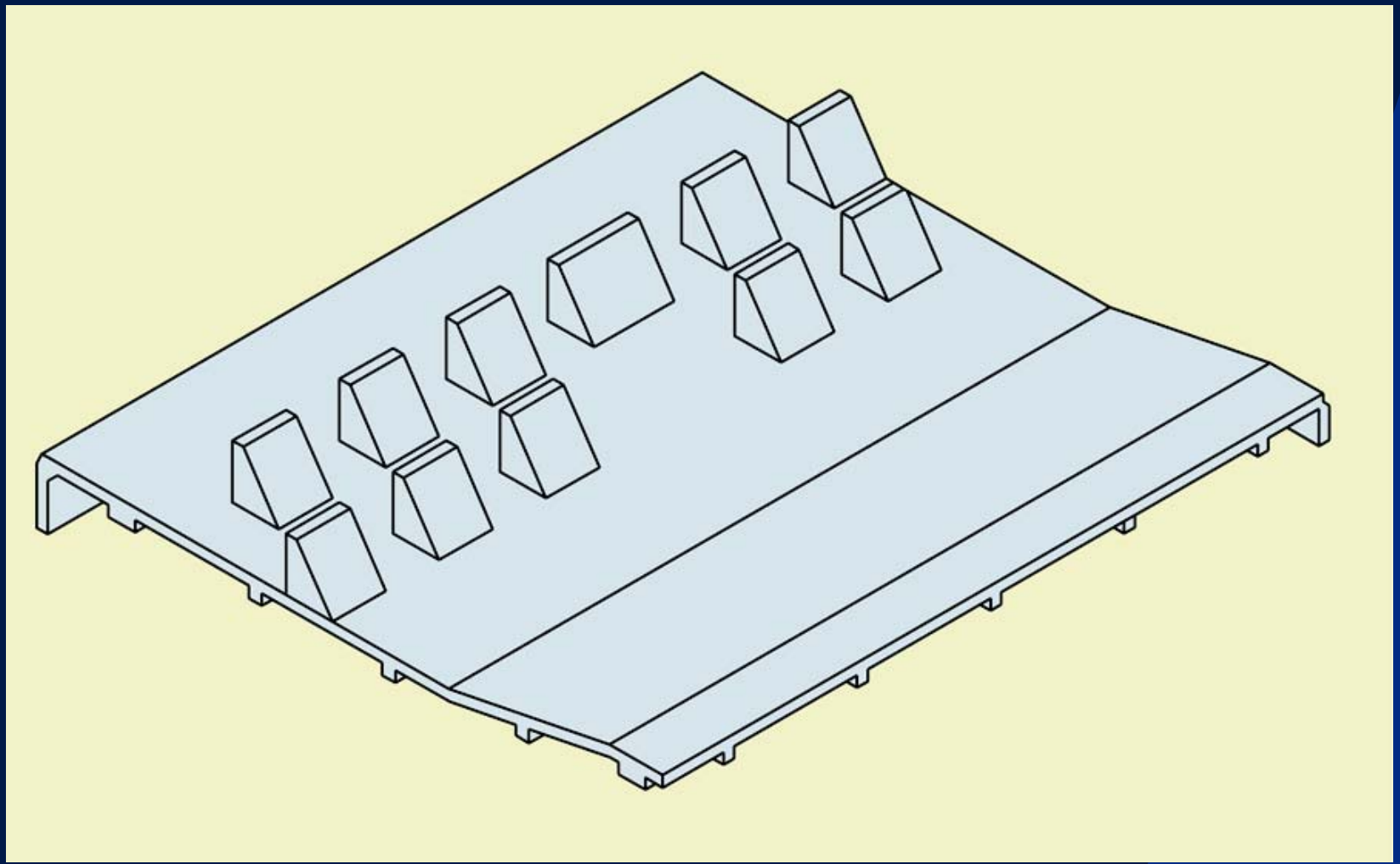
Ben C. Gerwick, Inc.

# Precast Tainter Gate Sill Shell



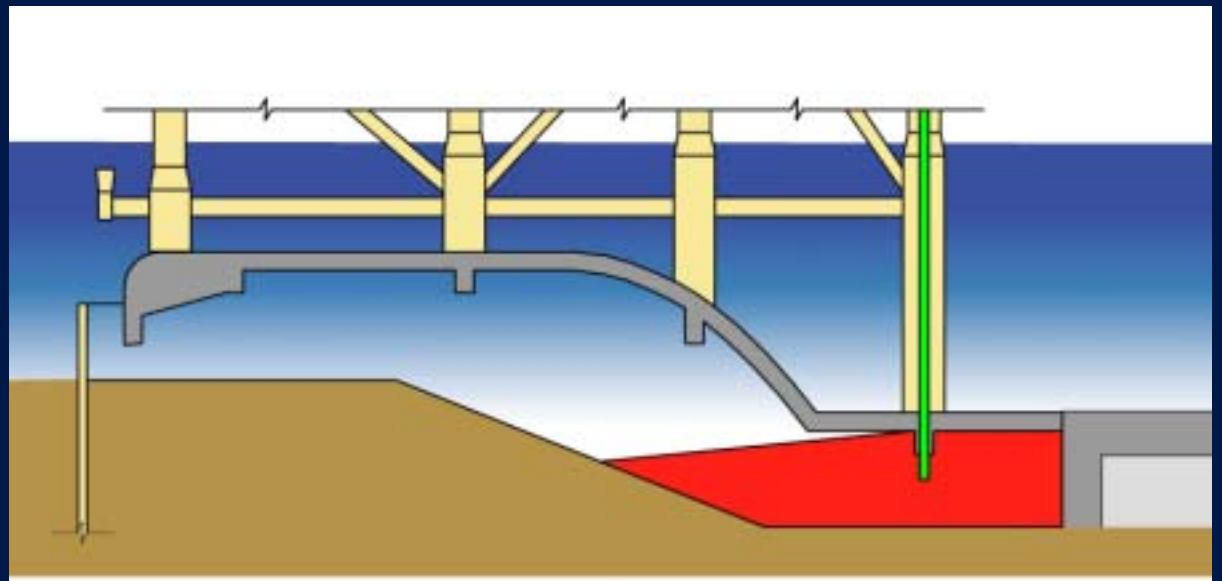
Ben C. Gerwick, Inc.

# Tainter Gate Stilling Basin Shell

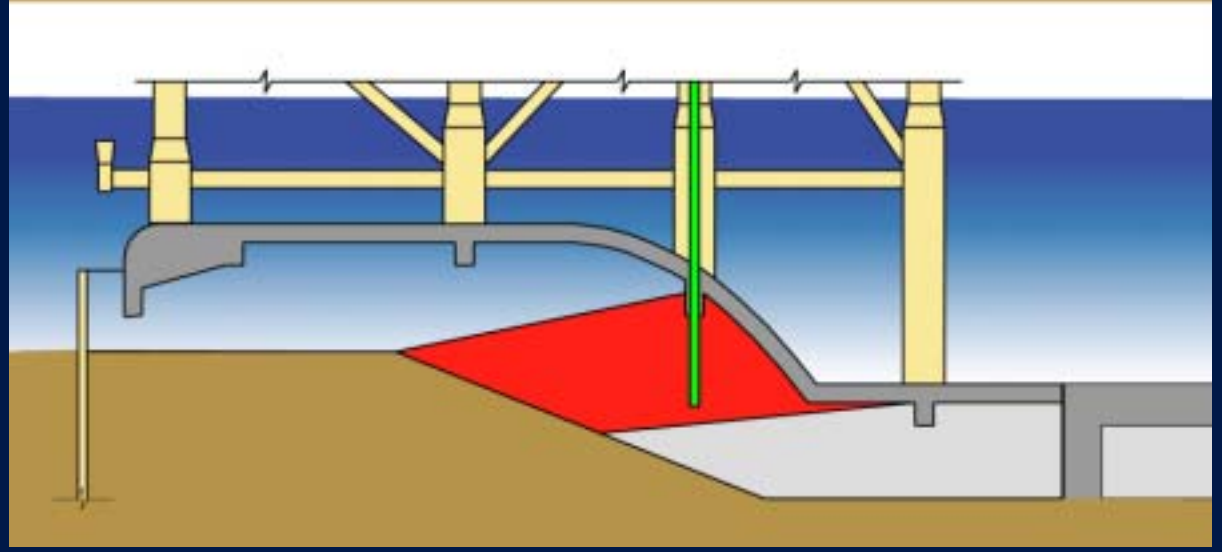


Ben C. Gerwick, Inc.

# Tainter Gate - Tremie Sequence



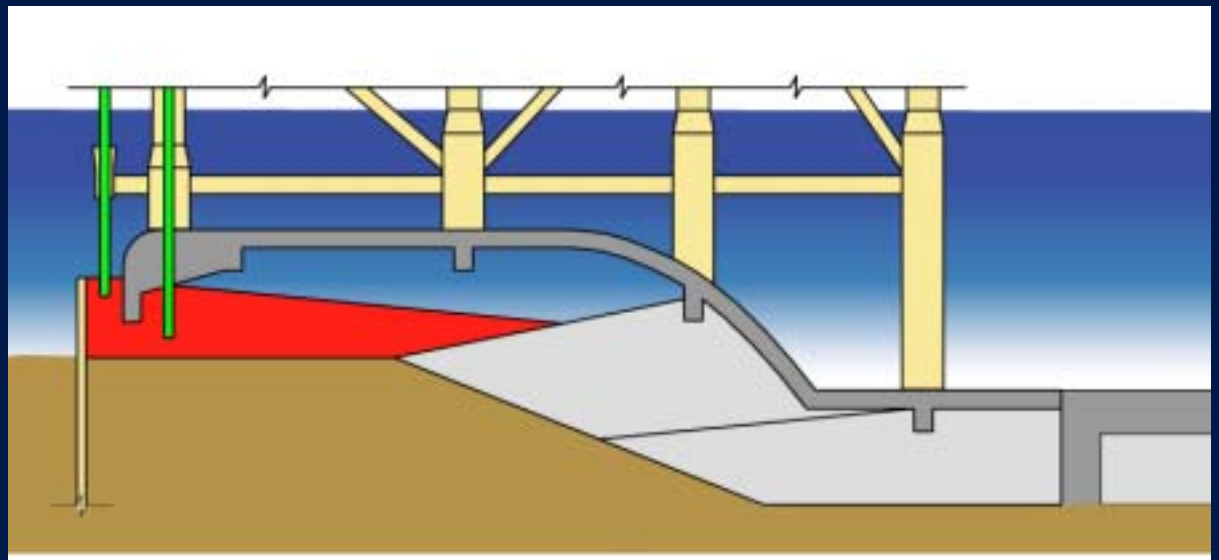
STAGE 1 POUR



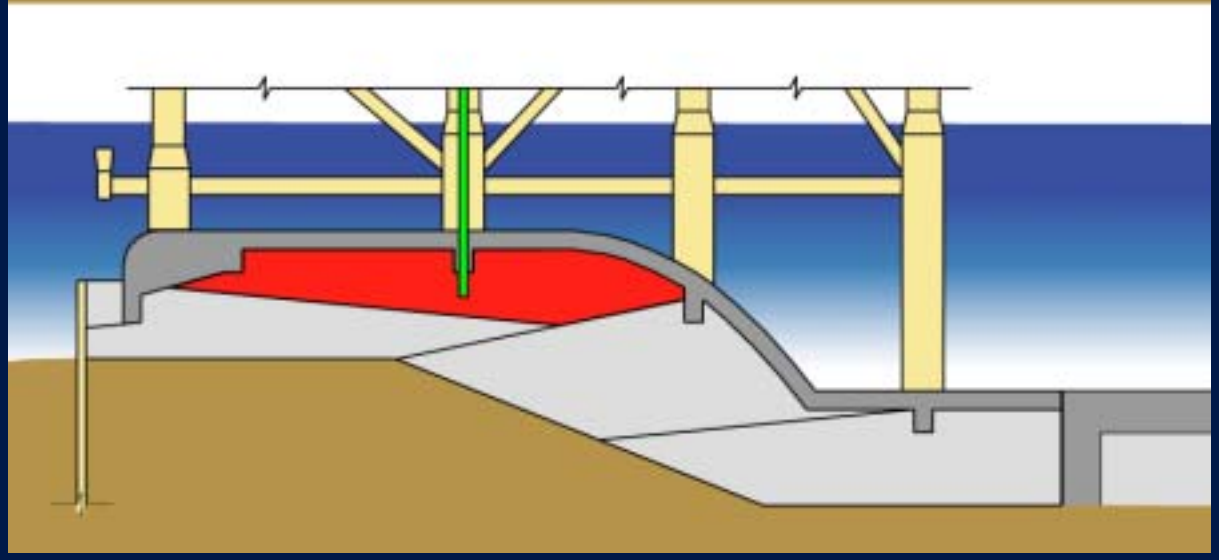
STAGE 2 POUR

Ben C. Gerwick, Inc.

# Tainter Gate - Tremie Sequence



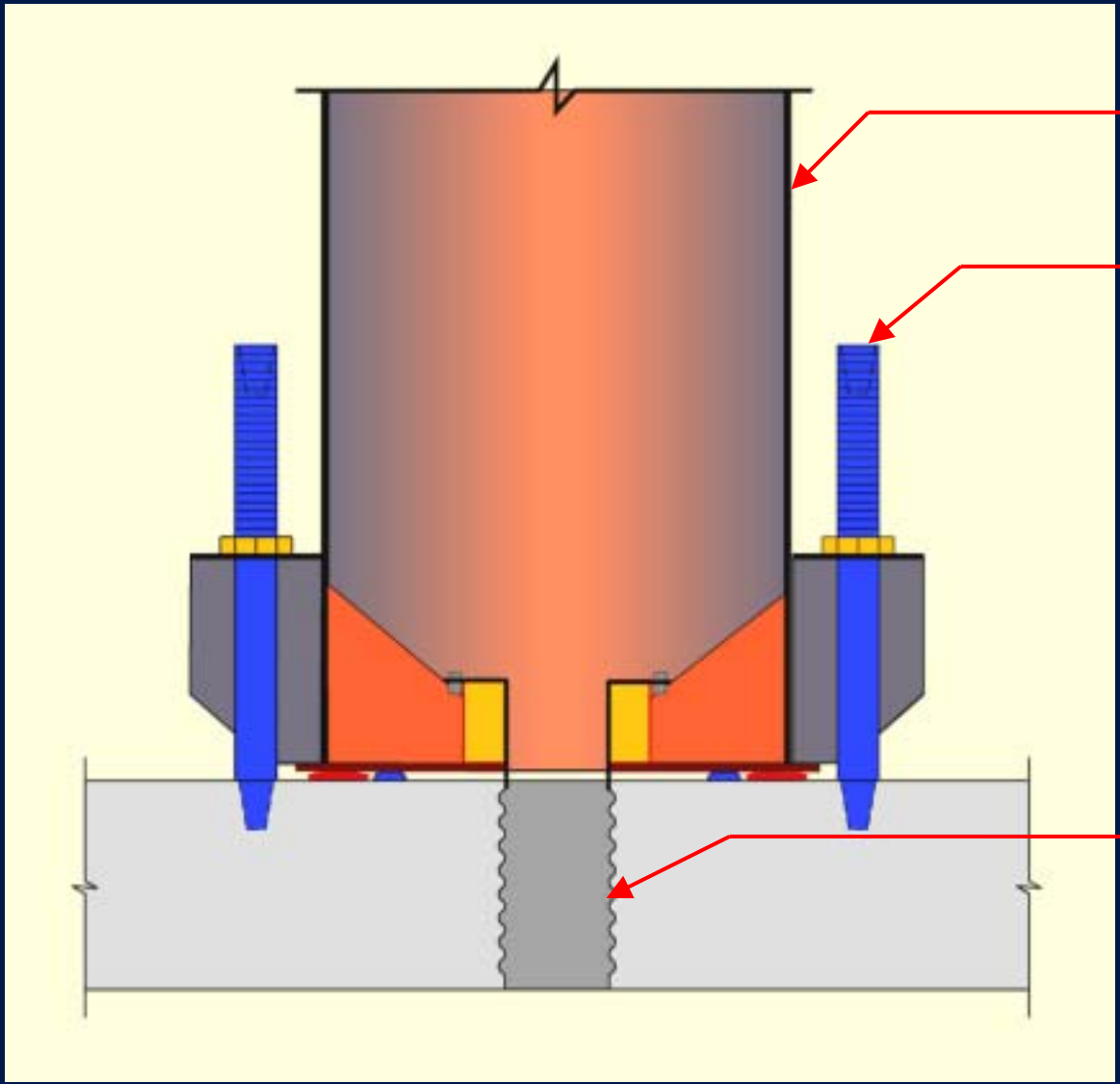
STAGE 3 POUR



STAGE 4 POUR

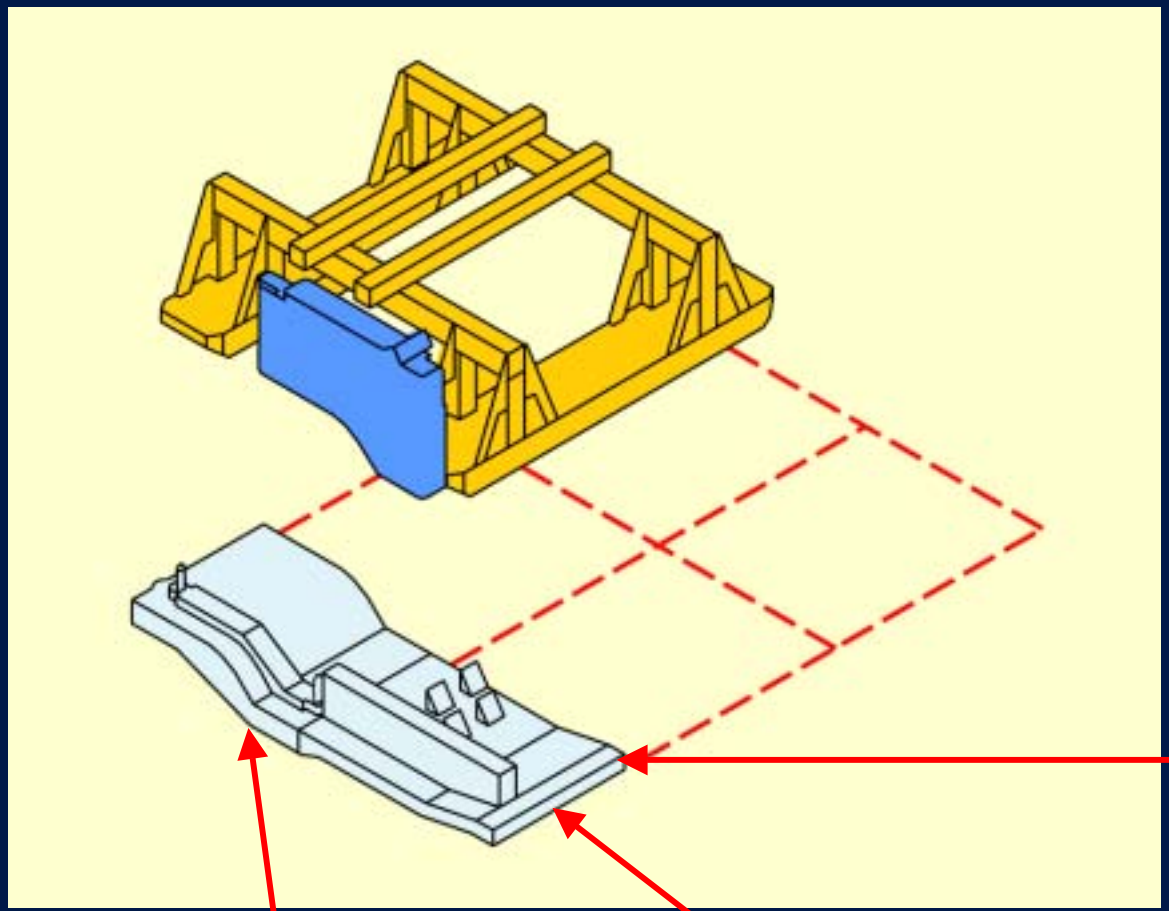
Ben C. Gerwick, Inc.

# Lifting Frame Connection




Ben C. Gerwick, Inc.

# Tainter Gate Lower Pier Wall Installation Sequence



- SET PIER SHELL
- TREMIE SHELL BOTTOM
- DE-WATER
- PLACE CONCRETE INSIDE

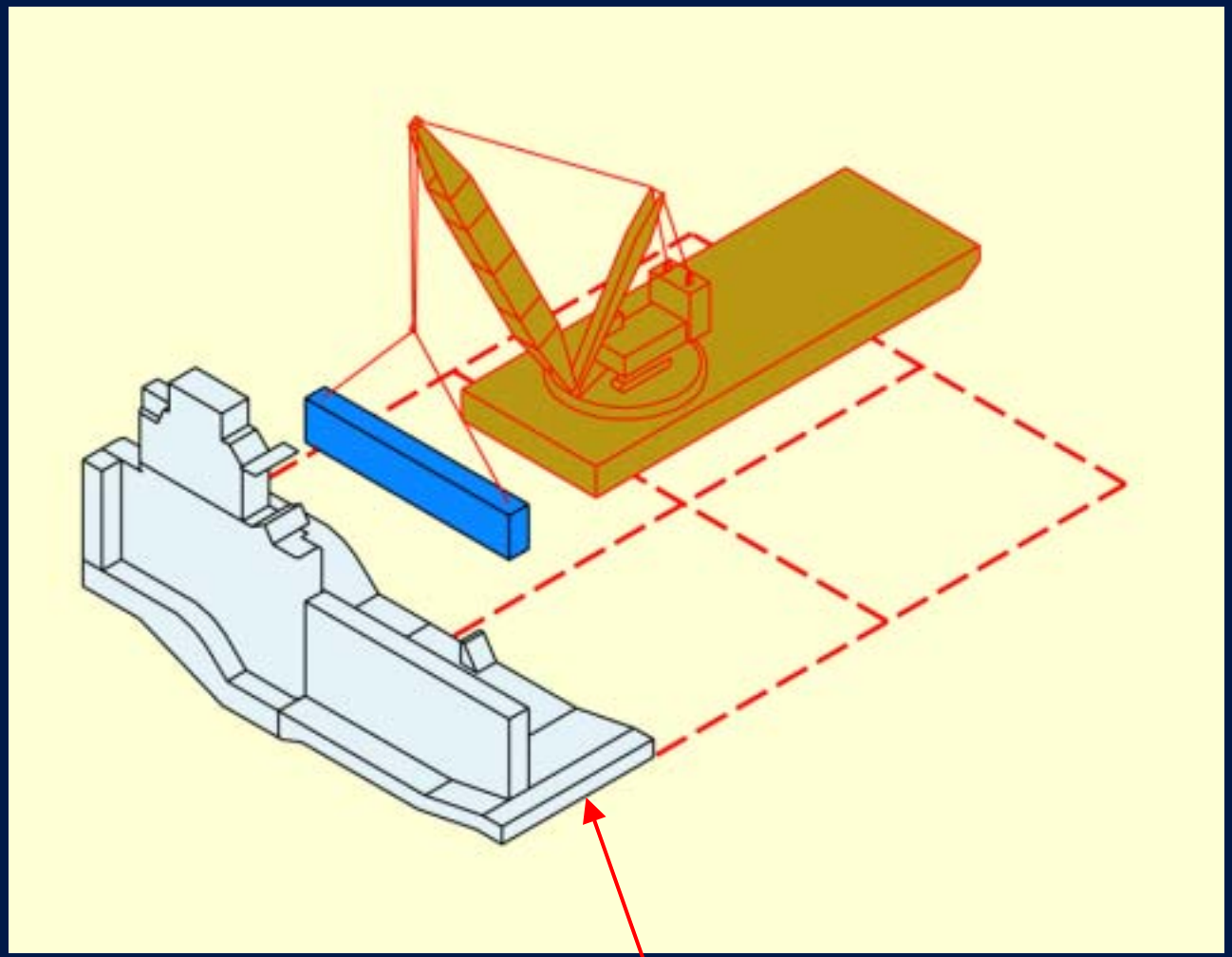
STILLING BASIN SHELL

SILL SHELL

MONOLITH 1

Ben C. Gerwick, Inc.

# Training Wall Installation Sequence

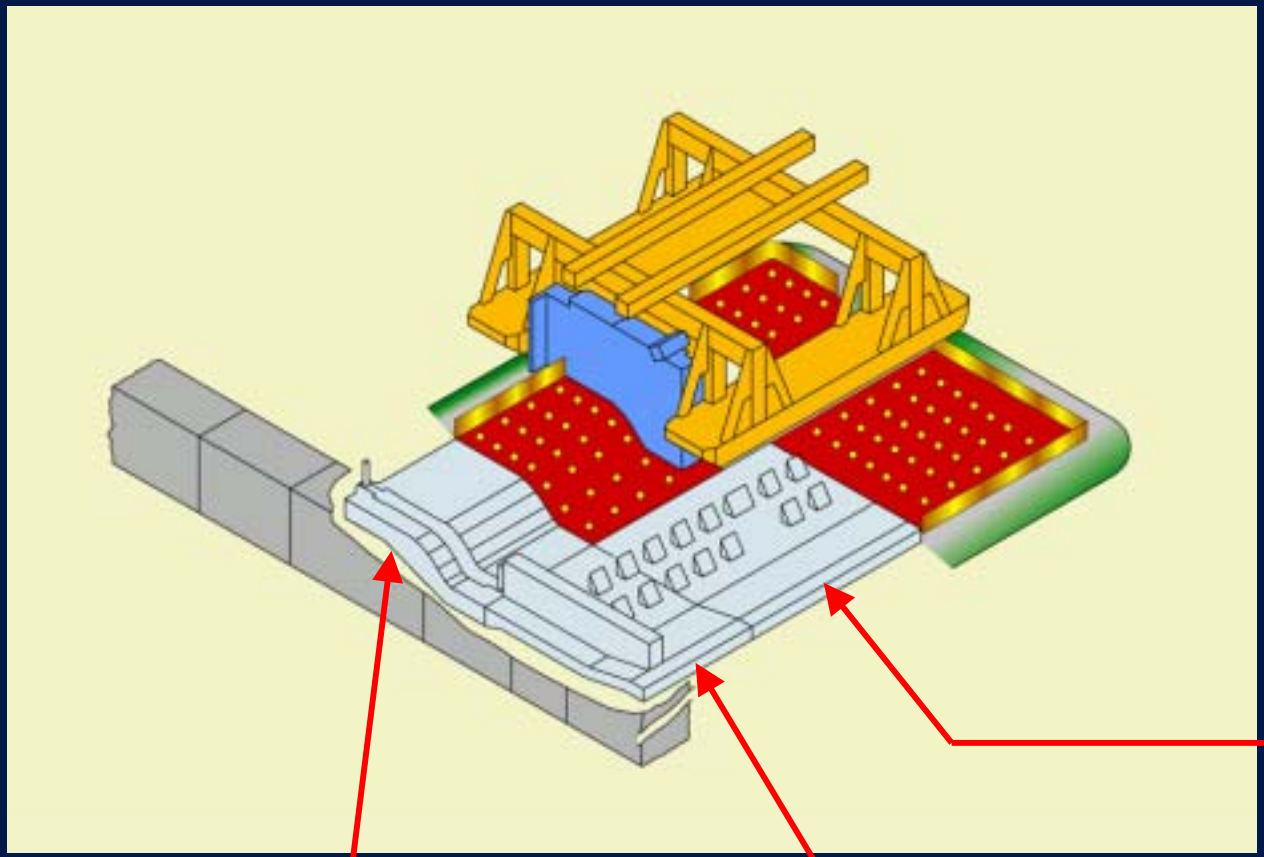



- SET UPPER RIGHT
- TRANING WALL SHELL



Ben C. Gerwick, Inc.

# Tainter Gate Lower Pier Wall Installation Sequence



- SET PIER SHELL
- TREMIE SHELL BOTTOM
- DE-WATER
- PLACE CONCRETE INSIDE

STILLING BASIN SHELL

SILL SHELL

MONOLITH 1

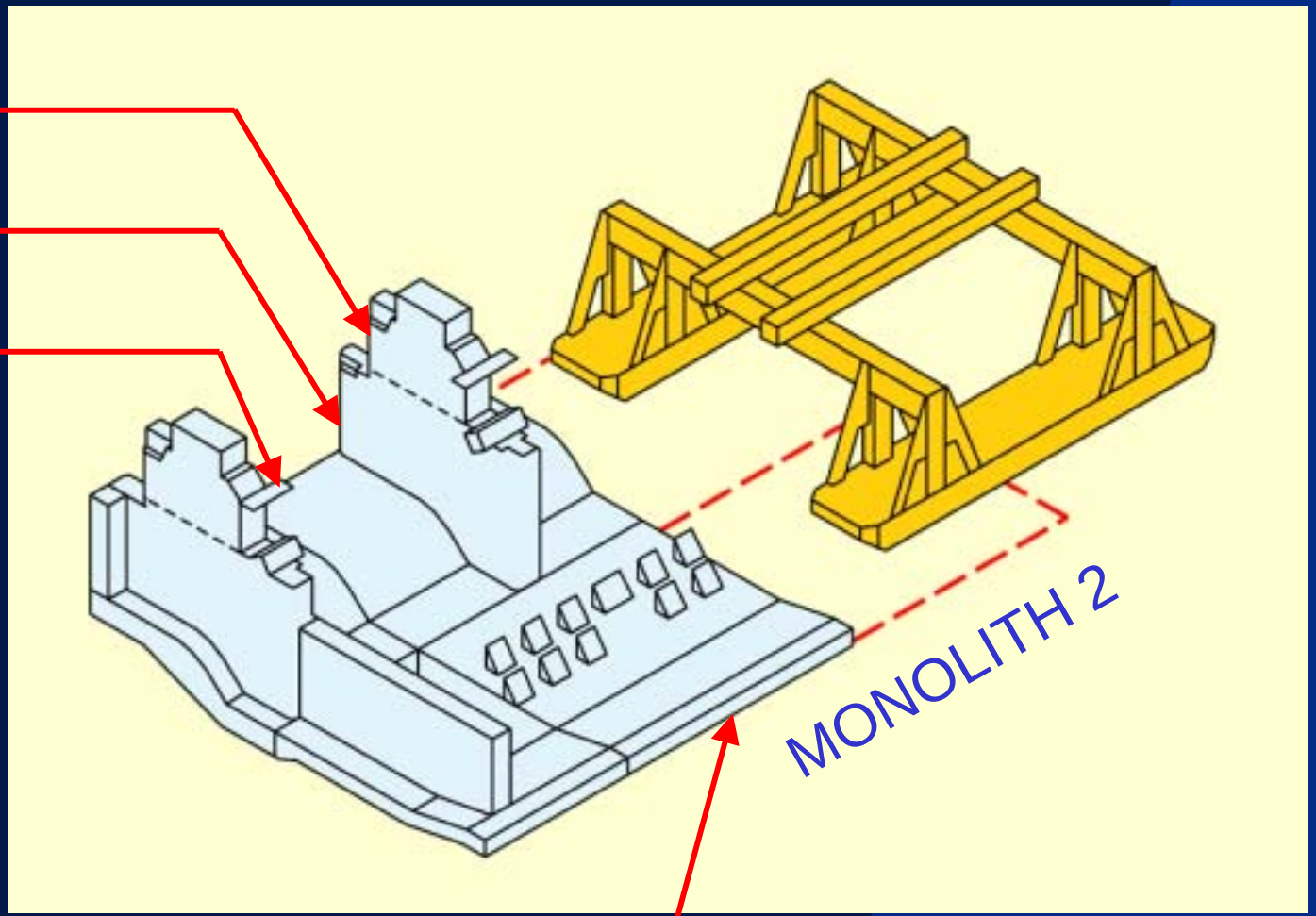
Ben C. Gerwick, Inc.

# Tainter Gate Section Installation Sequence

SET UPPER
PIER WALL SHAFT

SET PIER SHELL

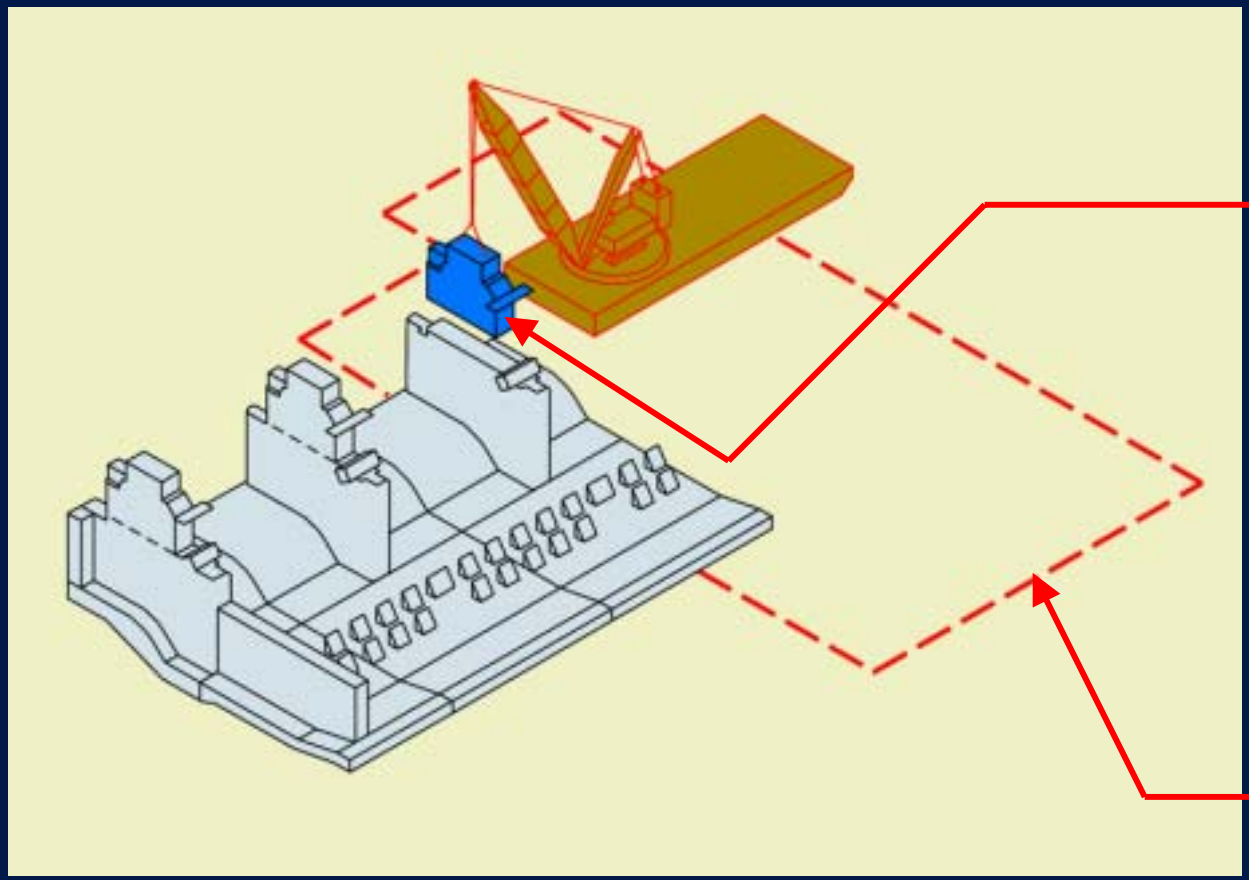
SET SILL SHELL




SET STILLING BASIN SHELL

Ben C. Gerwick, Inc.

# Tainter Gate Section Installation Sequence

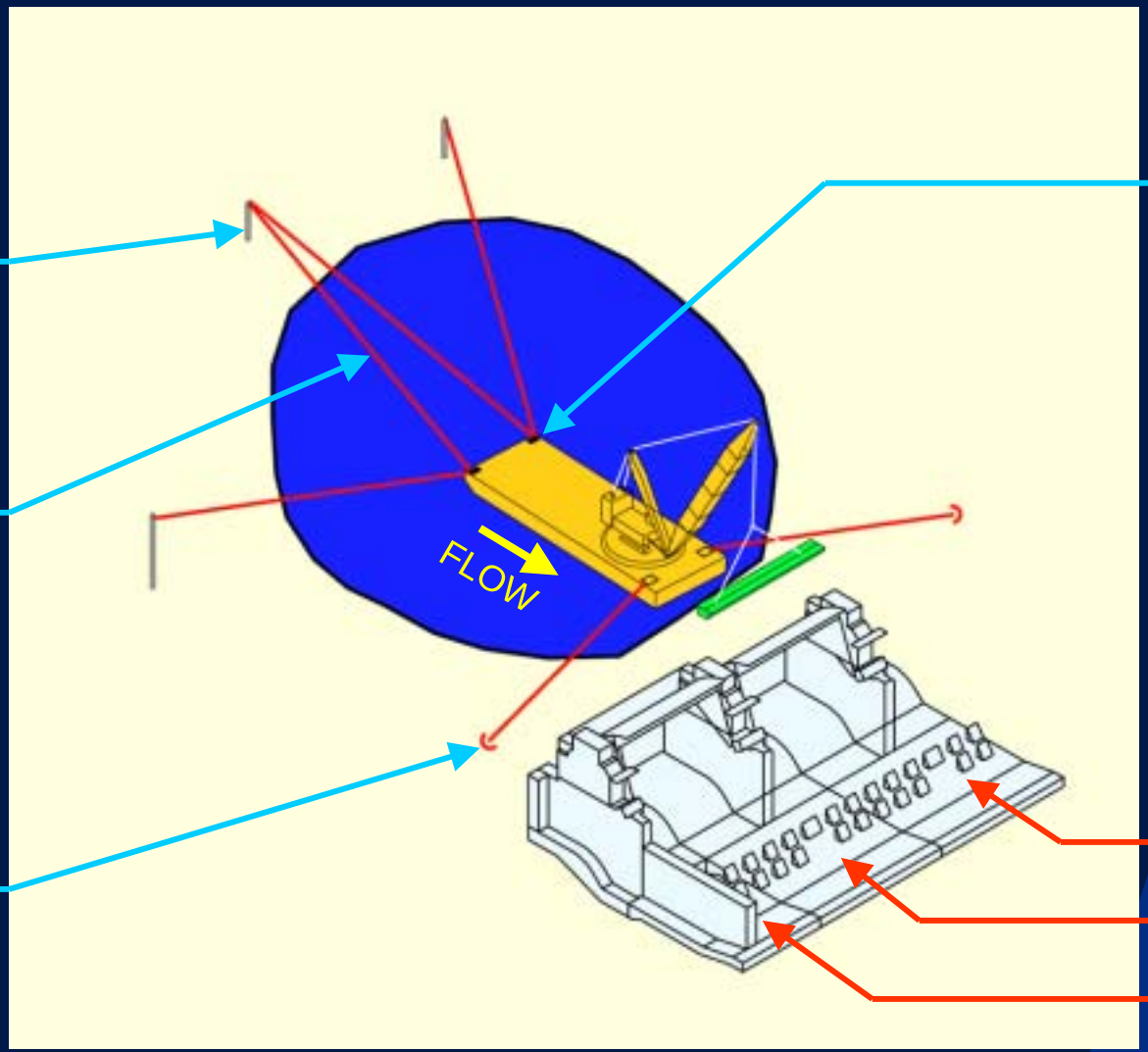


INSTALLATION
UPPER PIER WALL
SHELL

TEMPORARY SCOUR
PROTECTION

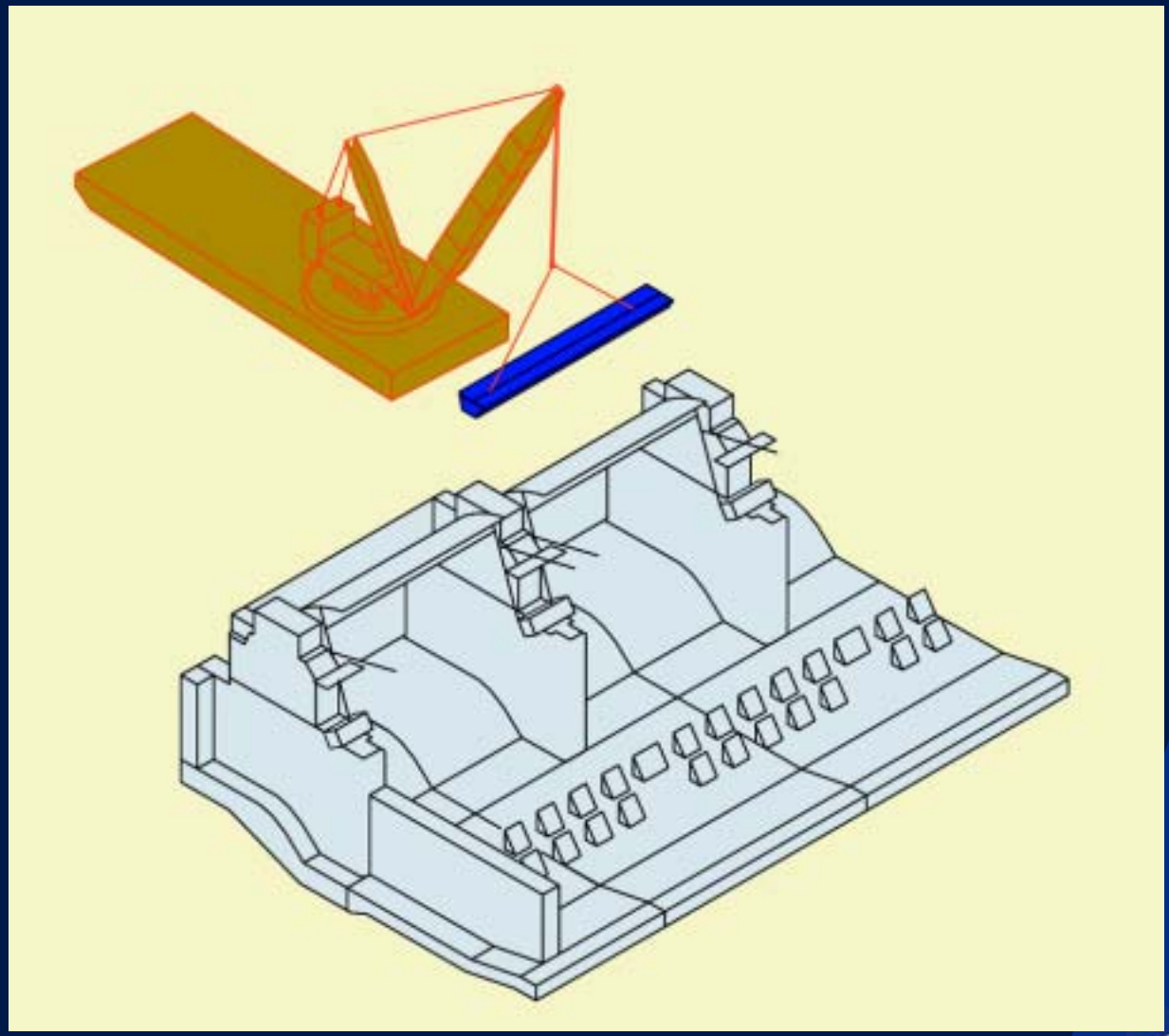
Ben C. Gerwick, Inc.

# Olmsted Dam – Lift-in Construction



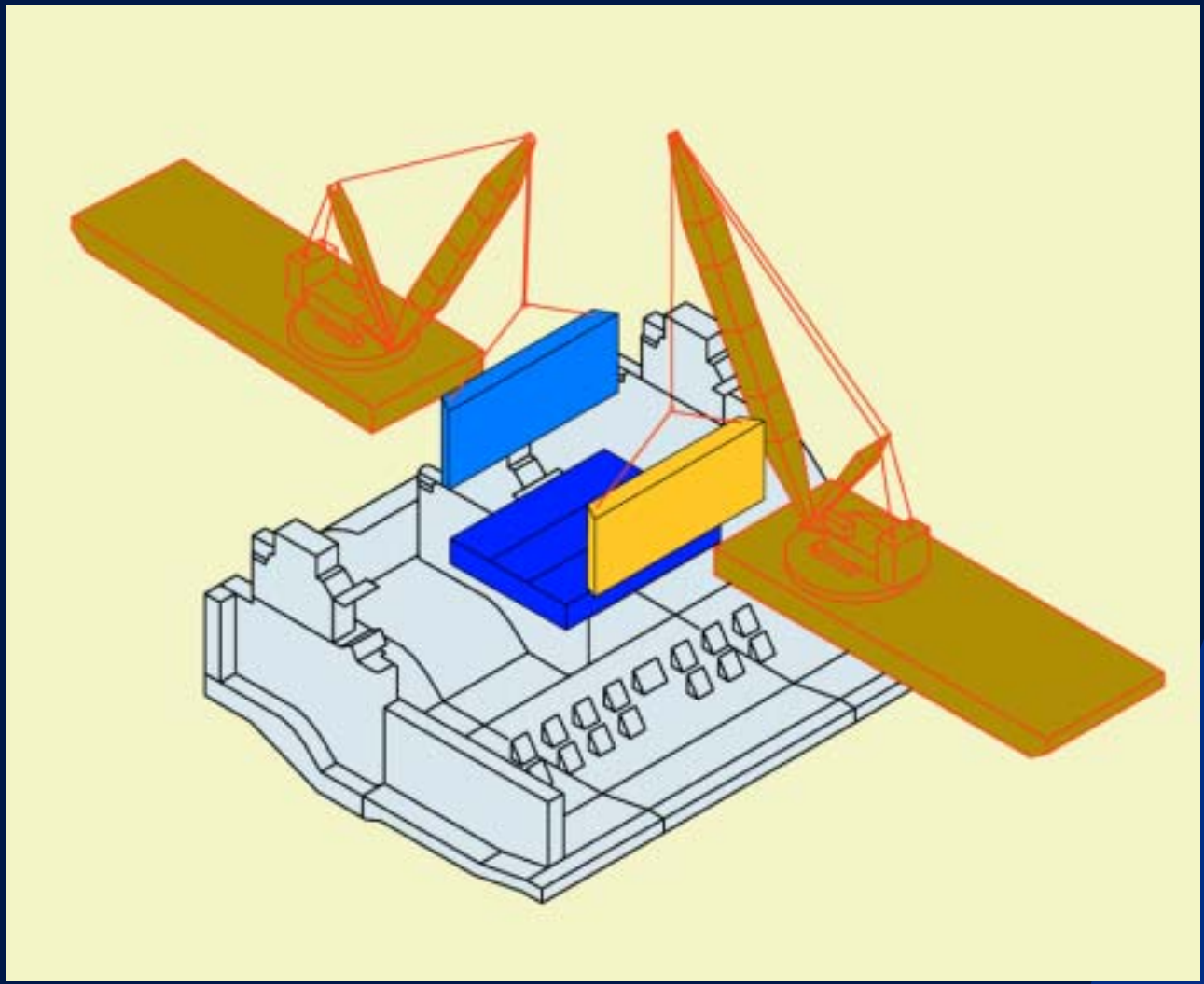

Ben C. Gerwick, Inc.

# Access Bridge Installation

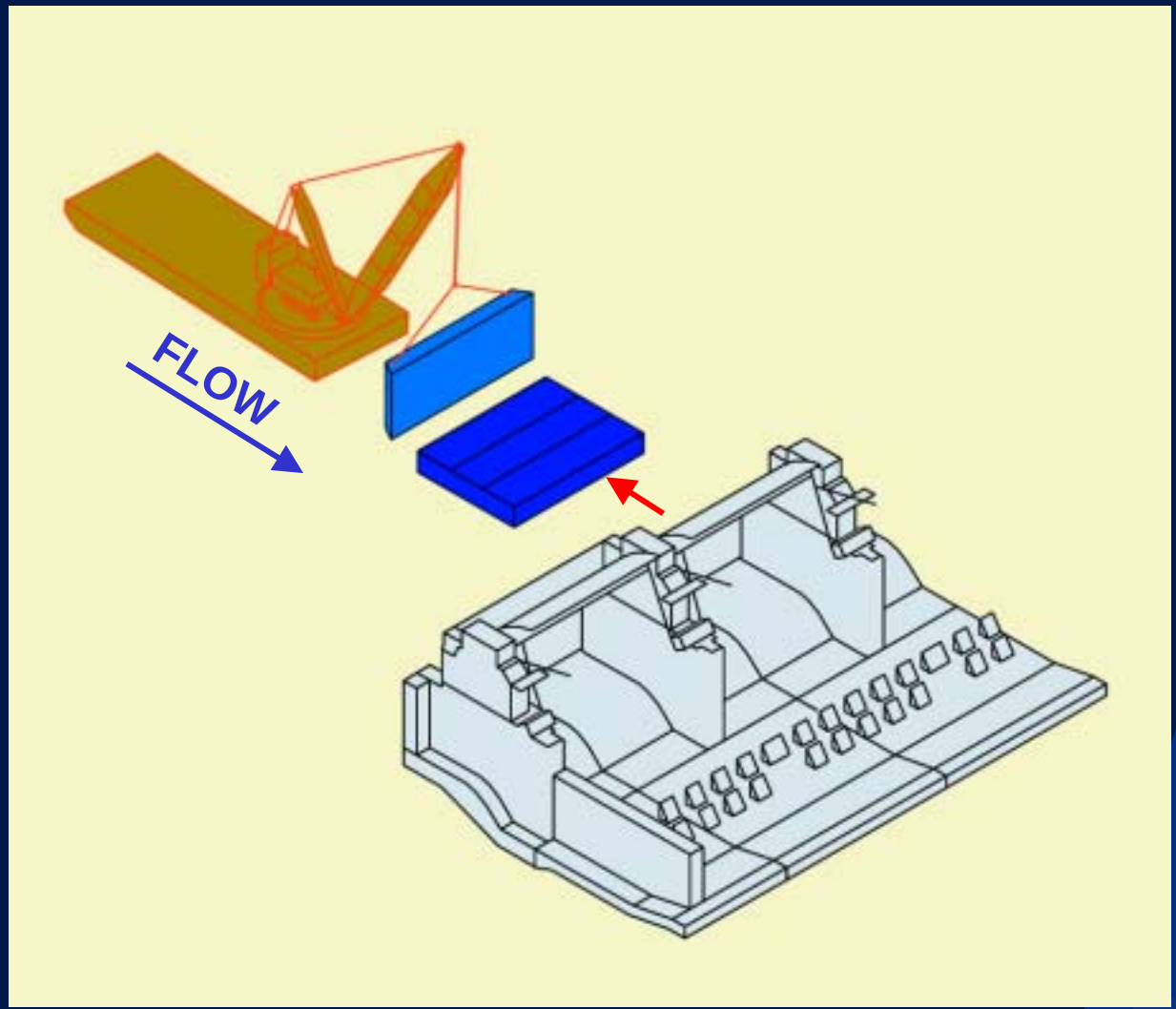


Ben C. Gerwick, Inc.

# Tainter Gate Installation on Barge

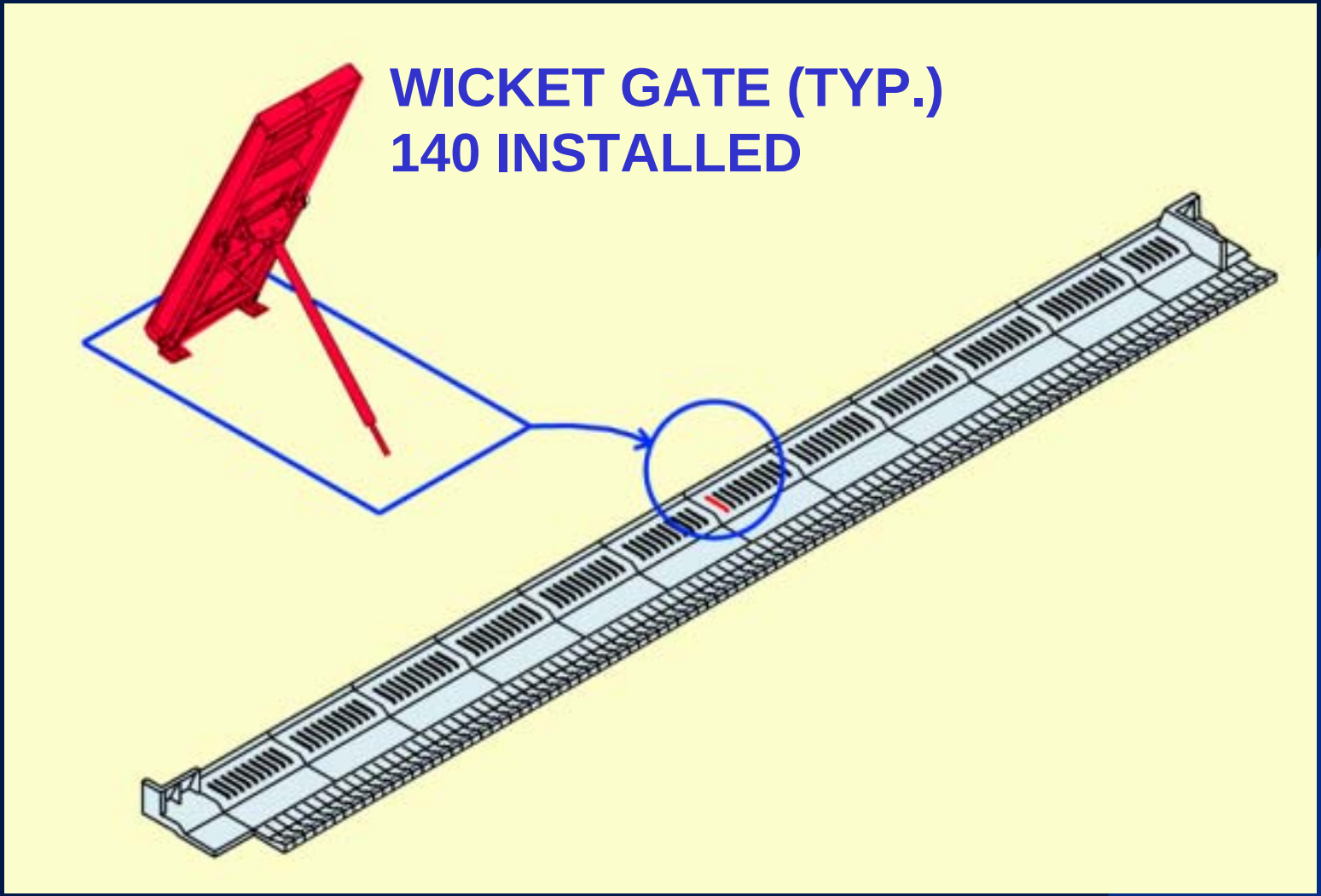


# Tainter Gate Installation / Barge Removal

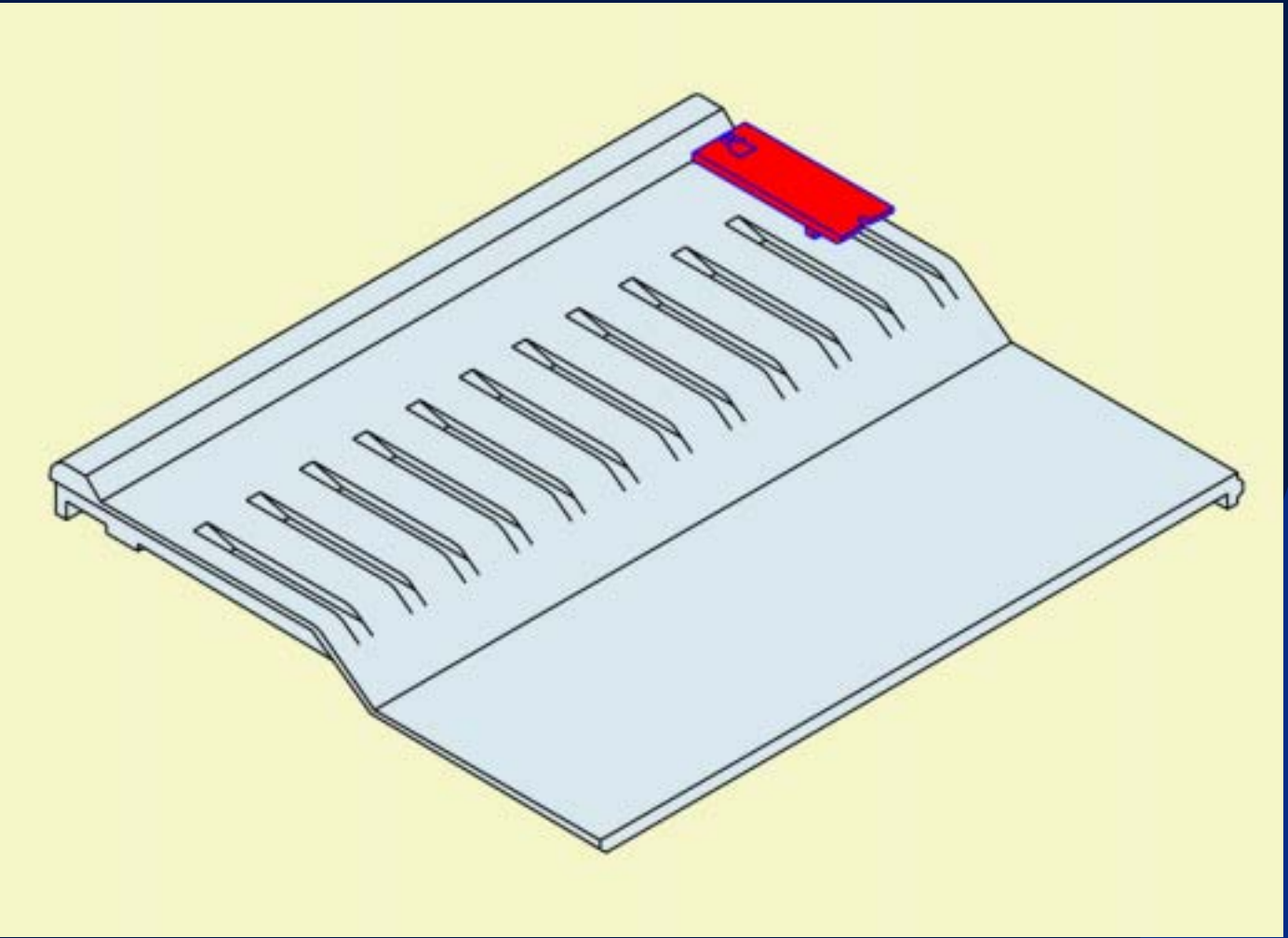



Ben C. Gerwick, Inc.

# Nav Pass Sill and Stilling Basin

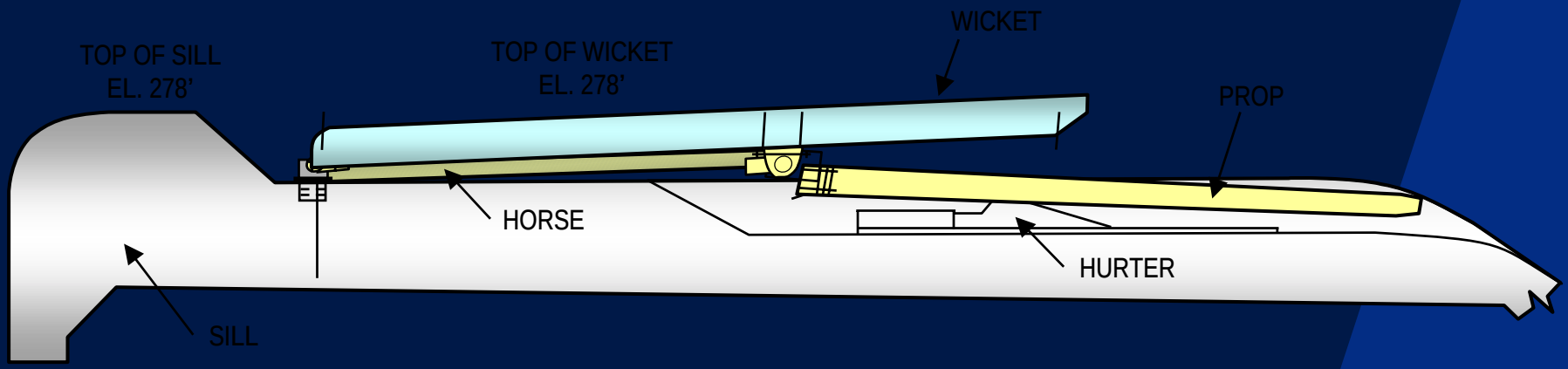


# Sill Shell Monolith 1-11



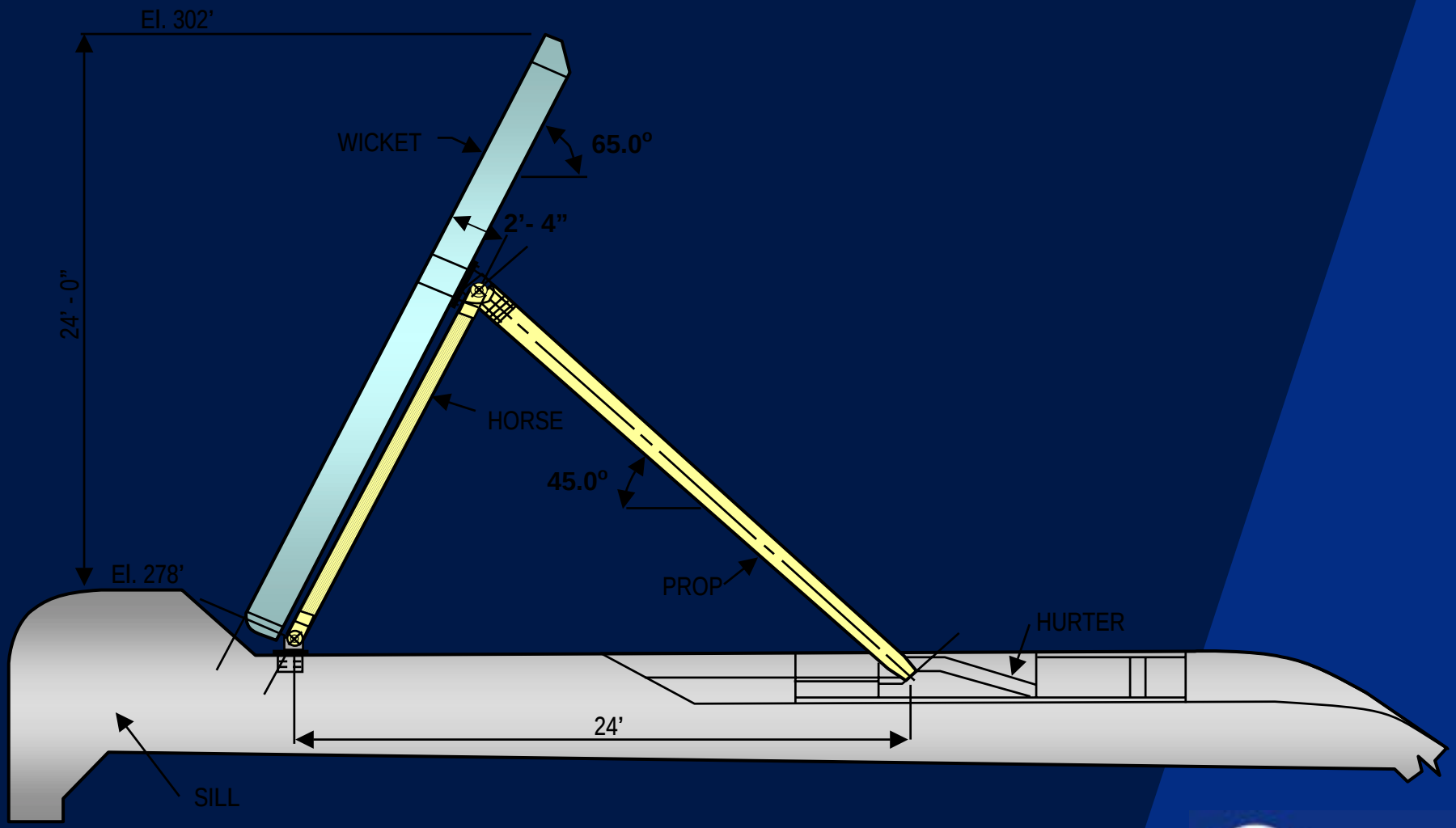
Ben C. Gerwick, Inc.

# Wicket Gate (Down)



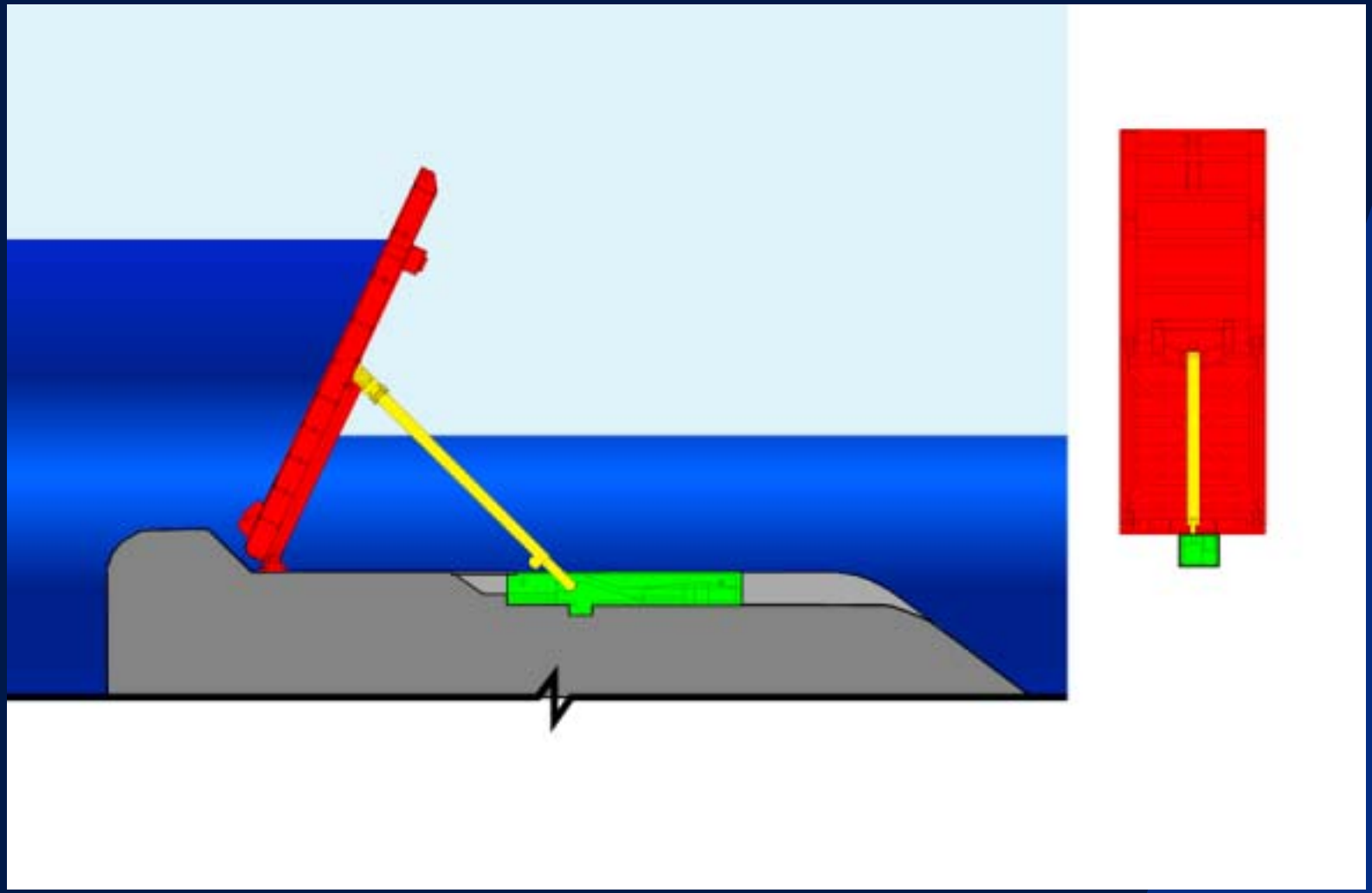

Ben C. Gerwick, Inc.

# Wicket Gate (Up)

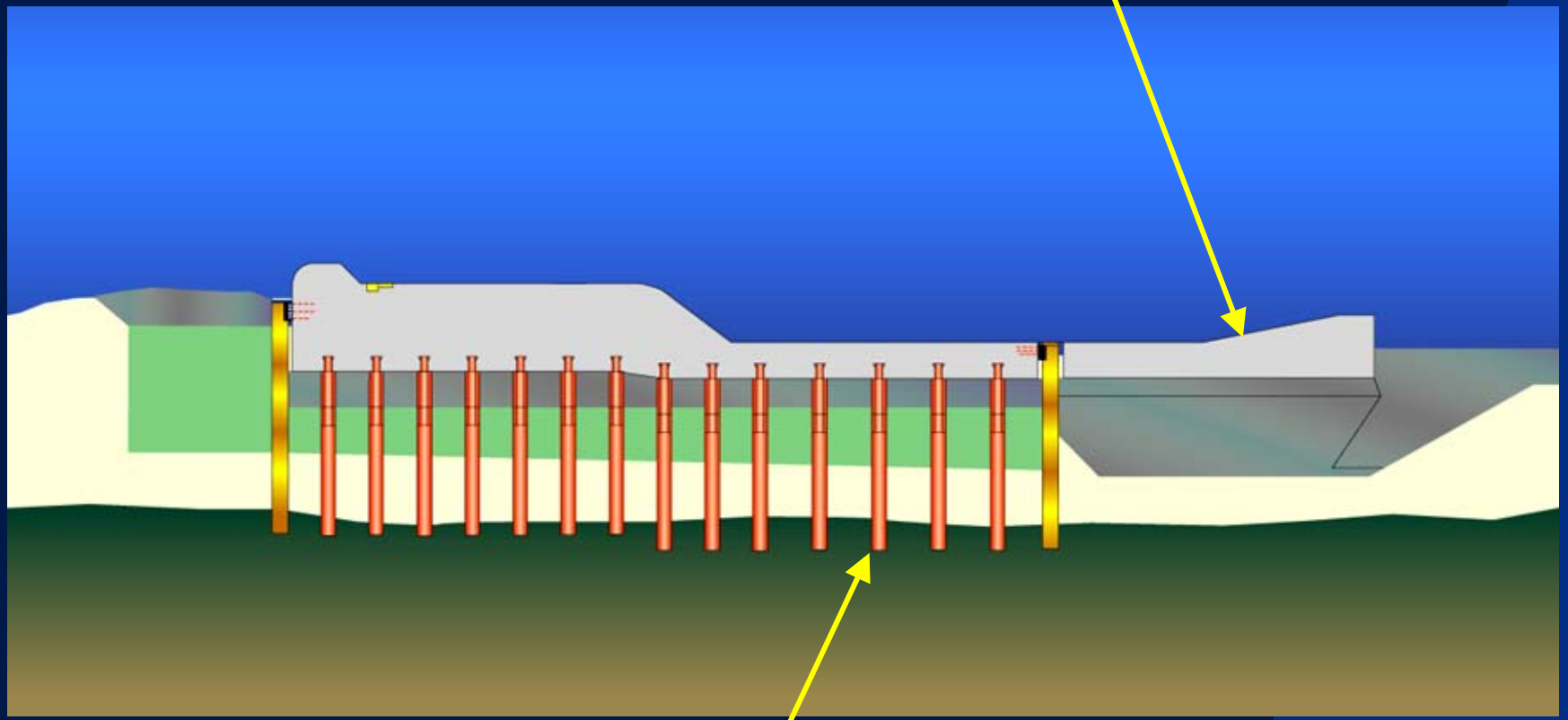



Ben C. Gerwick, Inc.

# Wicket Gate - Plan & Elevation

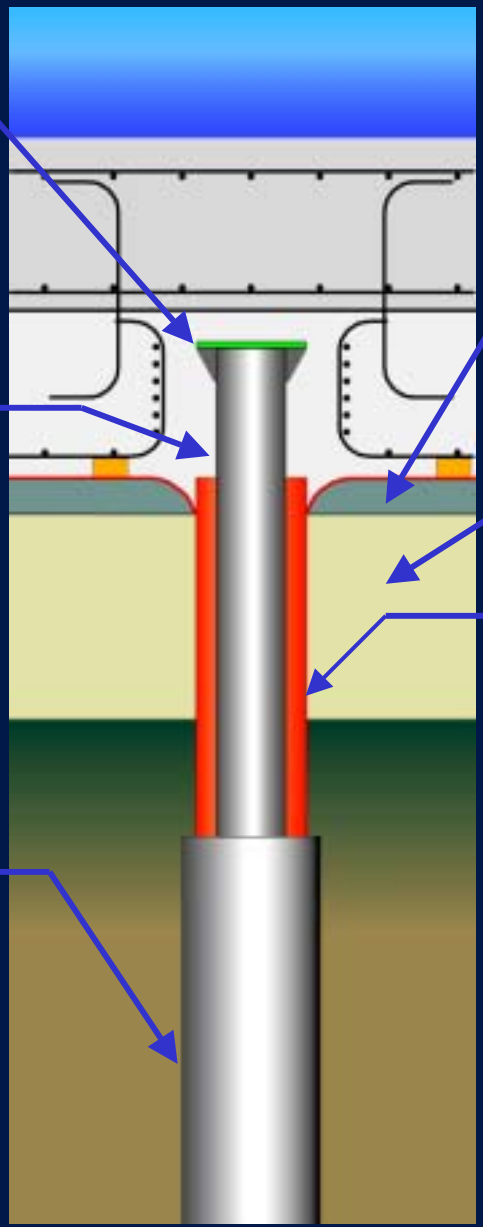


# Nav Pass Cross - Section



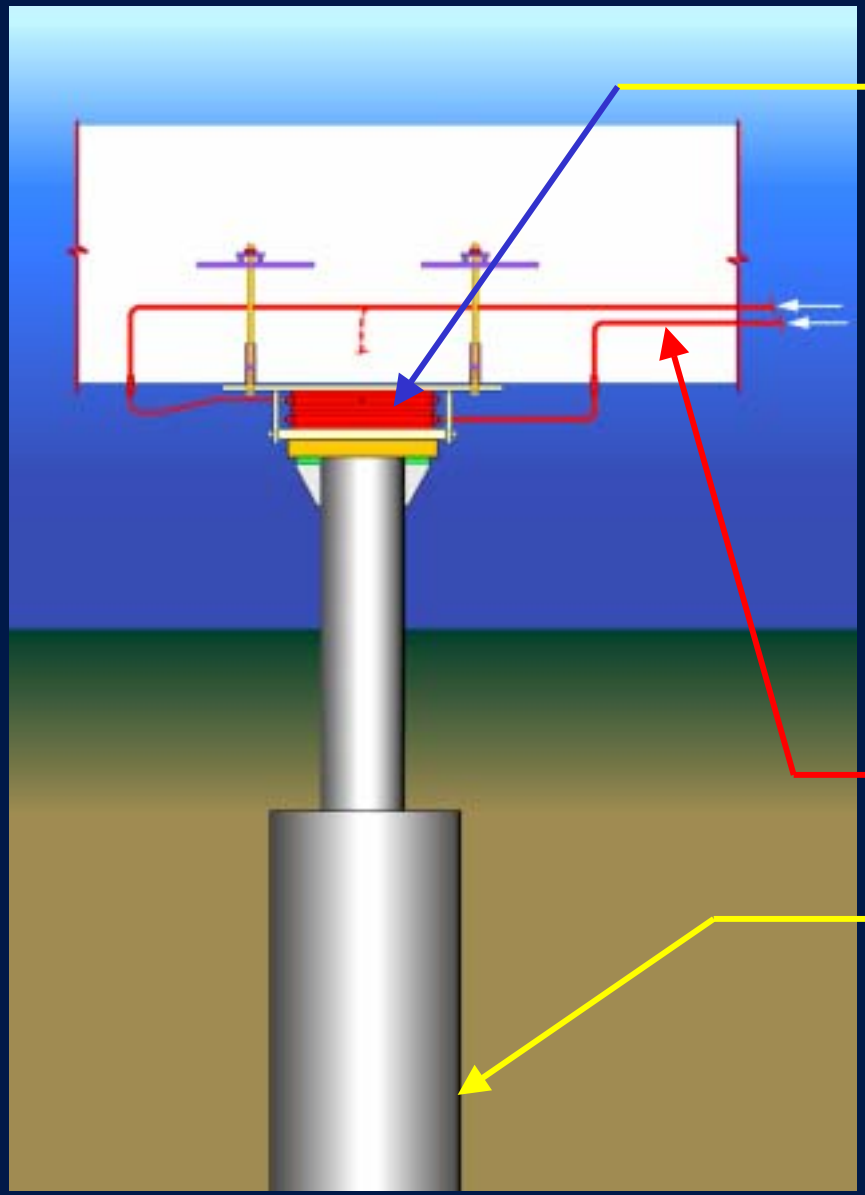

Ben C. Gerwick, Inc.

# Controlled Fixity Pile Head Detail



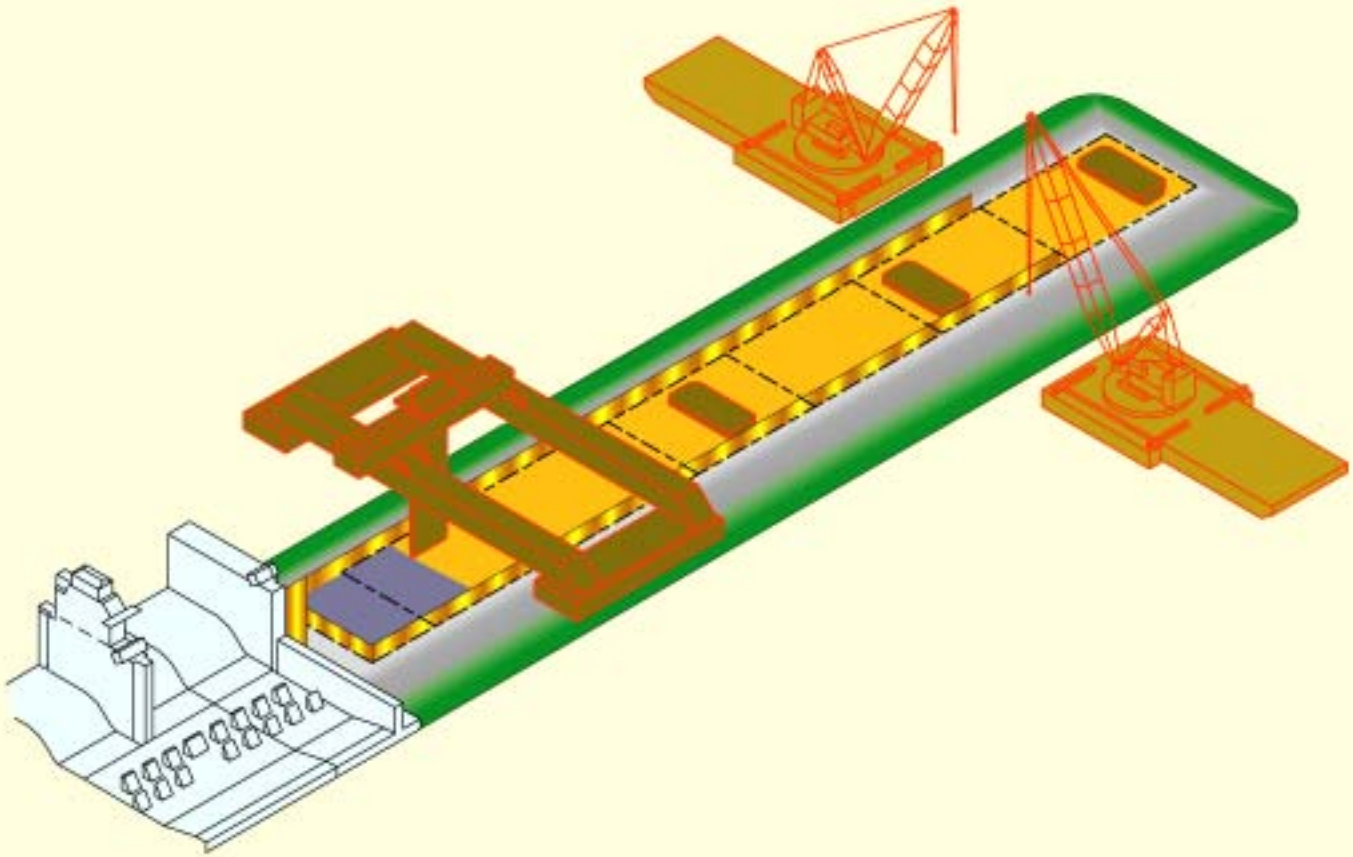

Ben C. Gerwick, Inc.

# Sill Shell - Landing Pad

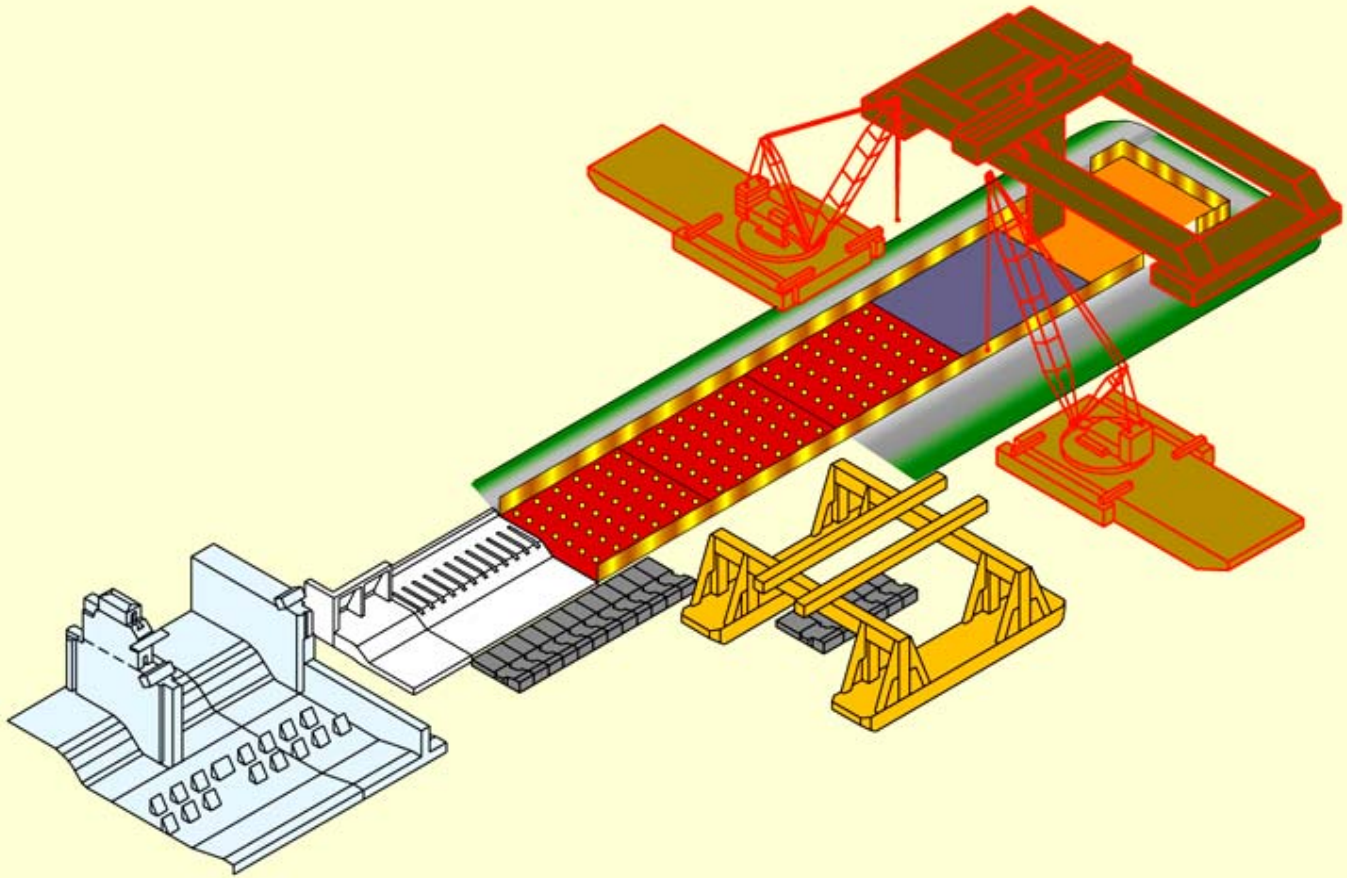



Ben C. Gerwick, Inc.

# Navigable Pass Installation Sequence

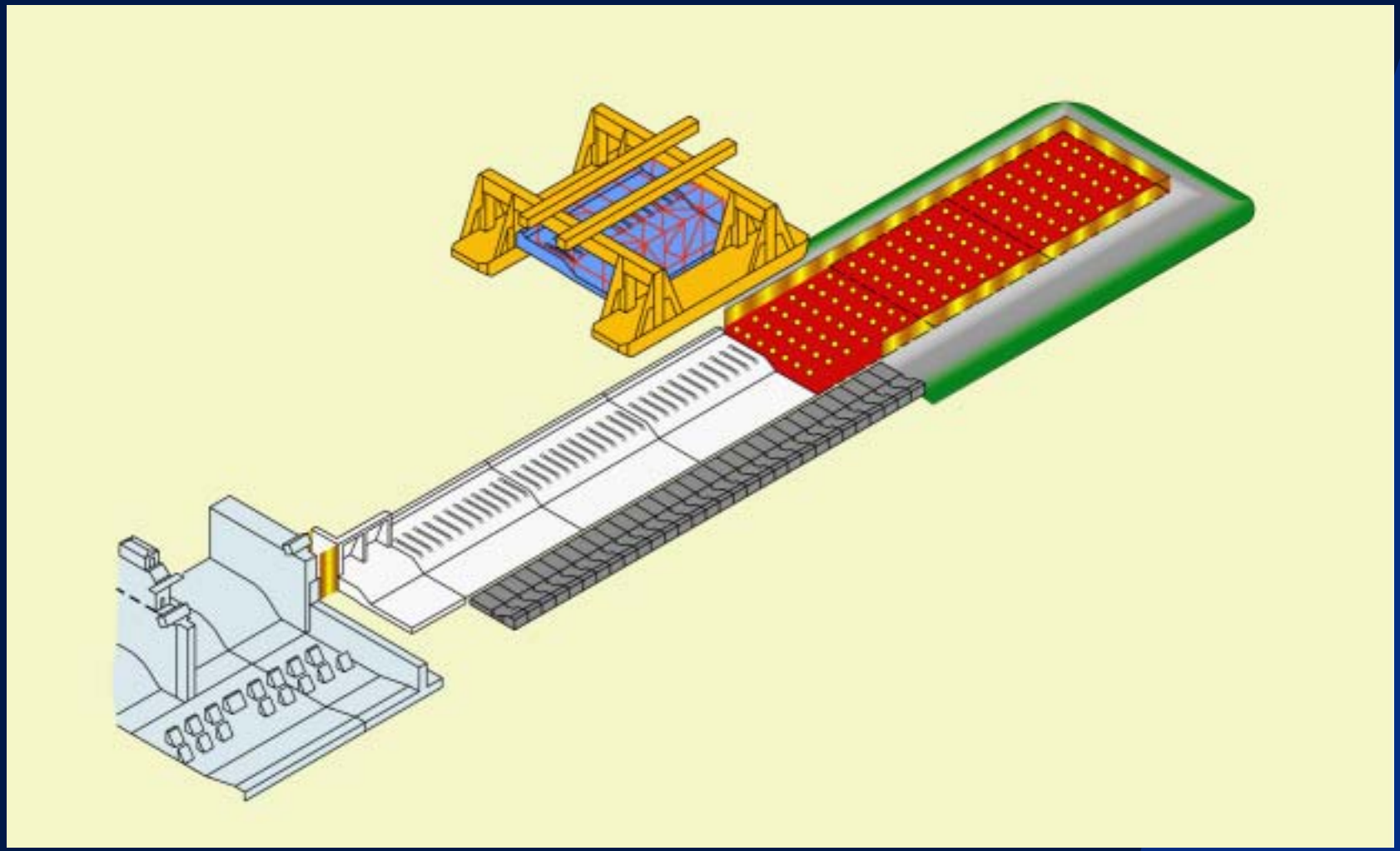


# Navigable Pass Installation Sequence



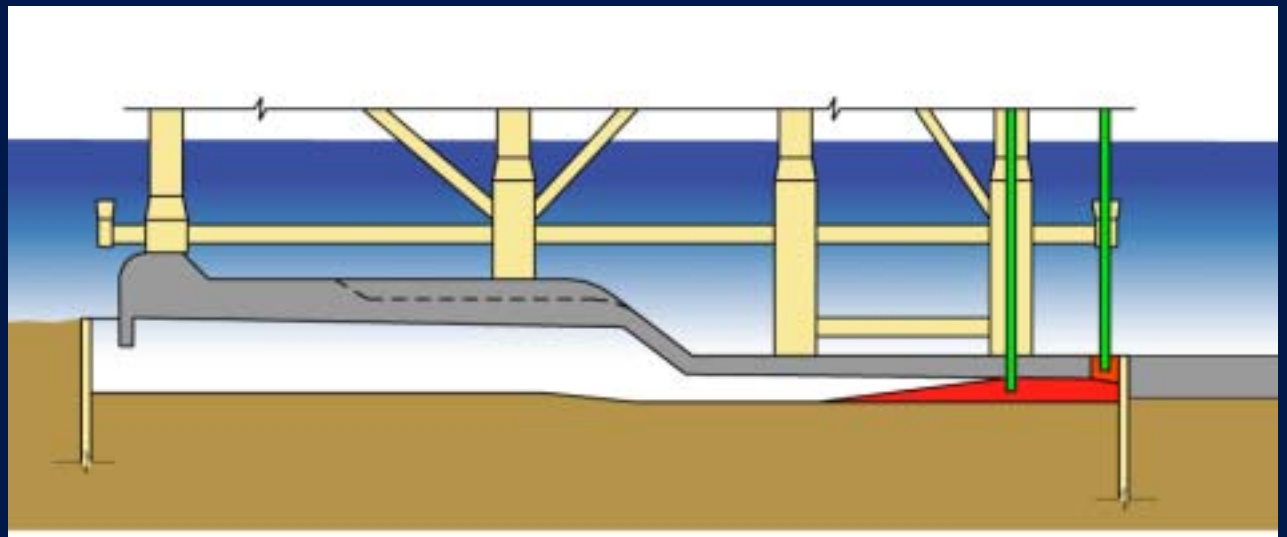
Ben C. Gerwick, Inc.

# Navigable Pass Installation Sequence, stage III

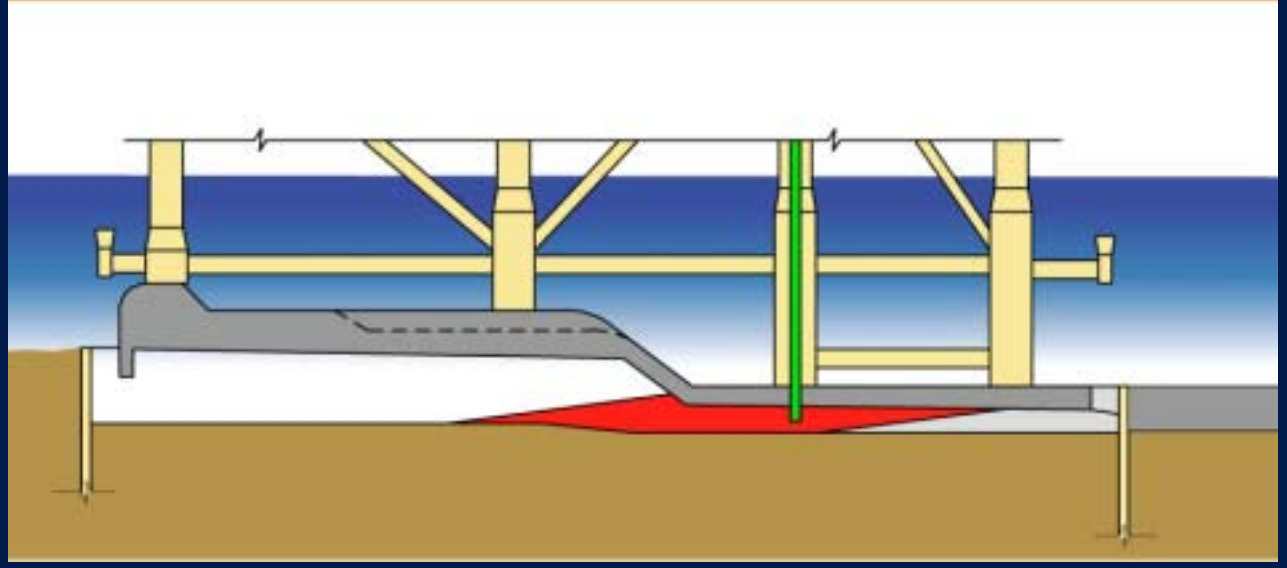


Ben C. Gerwick, Inc.

# Navigable Pass - Tremie Sequence



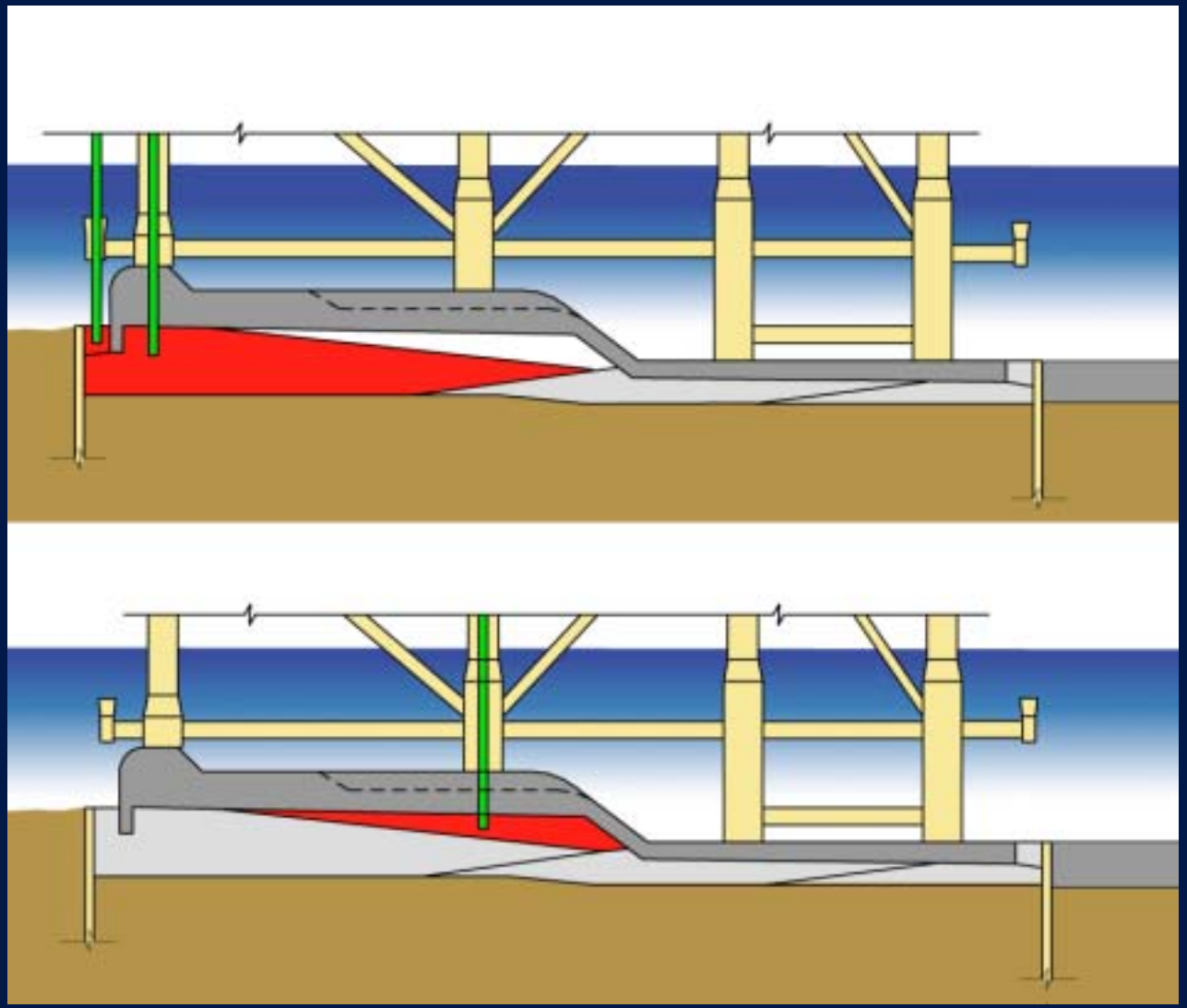
STAGE 1 POUR



STAGE 2 POUR

Ben C. Gerwick, Inc.

# Navigable Pass - Tremie Sequence

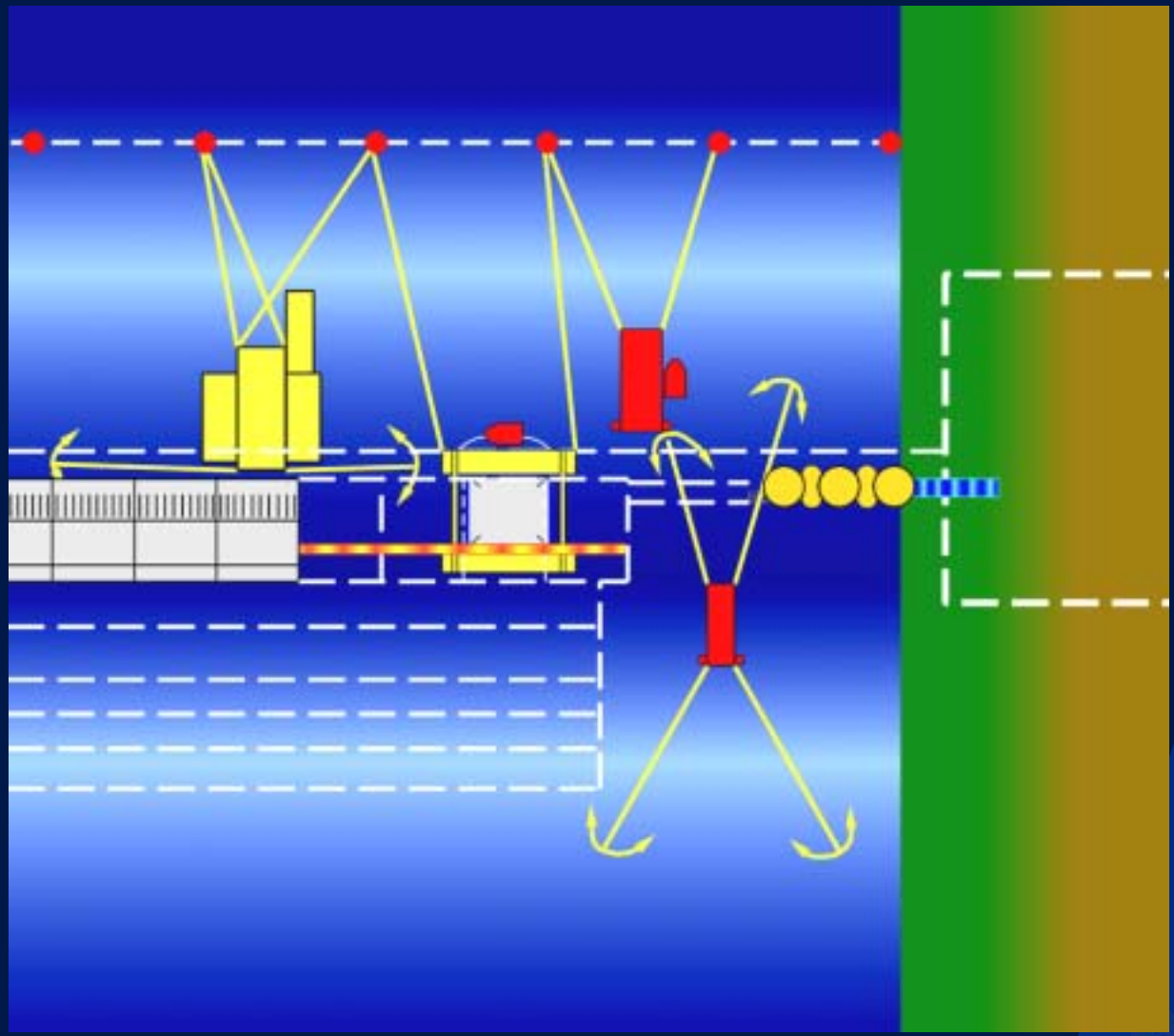


STAGE 3 POUR

STAGE 4 POUR

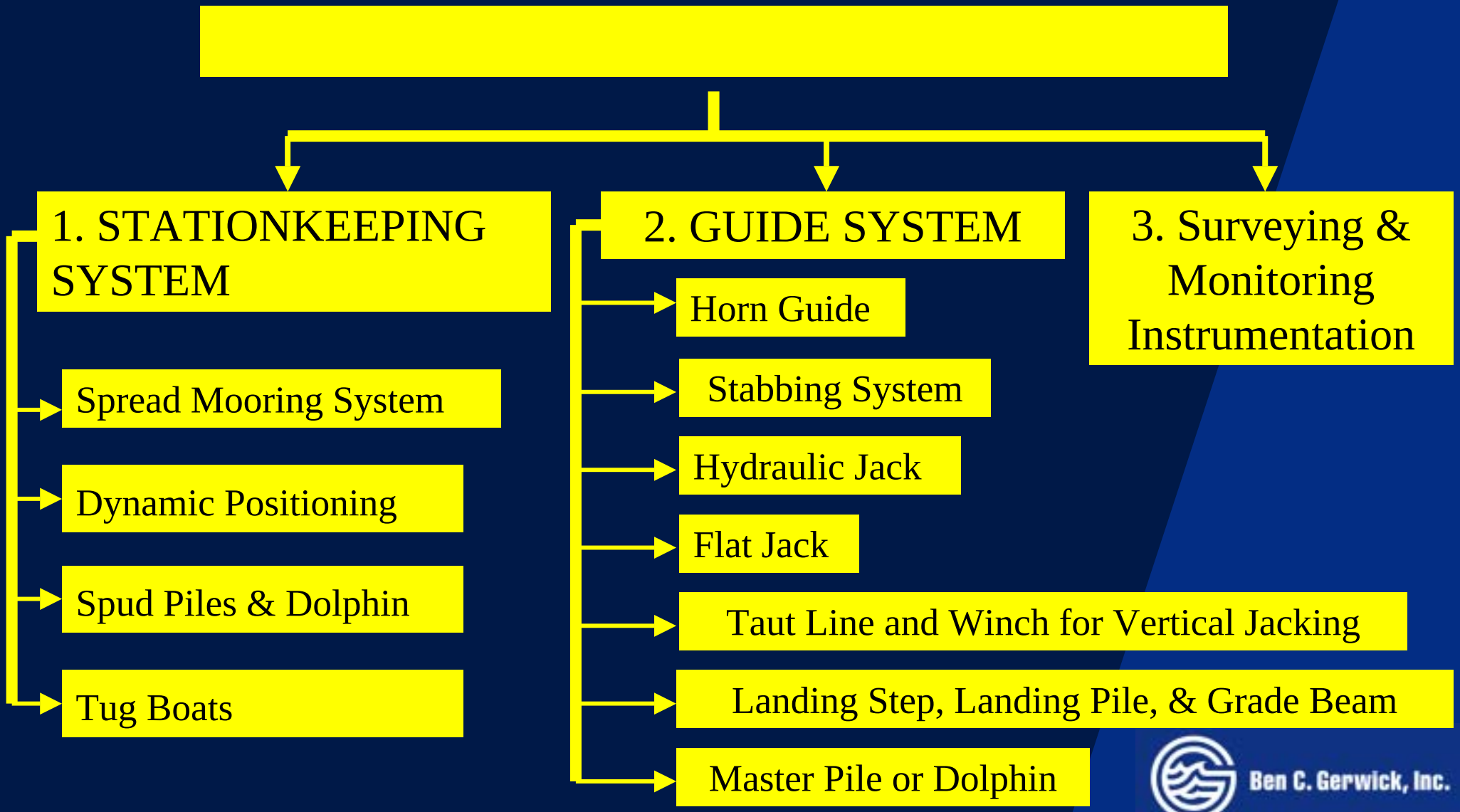
Ben C. Gerwick, Inc.

# Mooring Plan / River Blockage



Ben C. Gerwick, Inc.

# Positioning System - An Overview




Ben C. Gerwick, Inc.

# Existing Lock - Dam 2 at Braddock

Photograph by Margaret Luzier
Dams & Locks.ppt

Ben C. Gerwick, Inc.

# Precast Panels in Storage

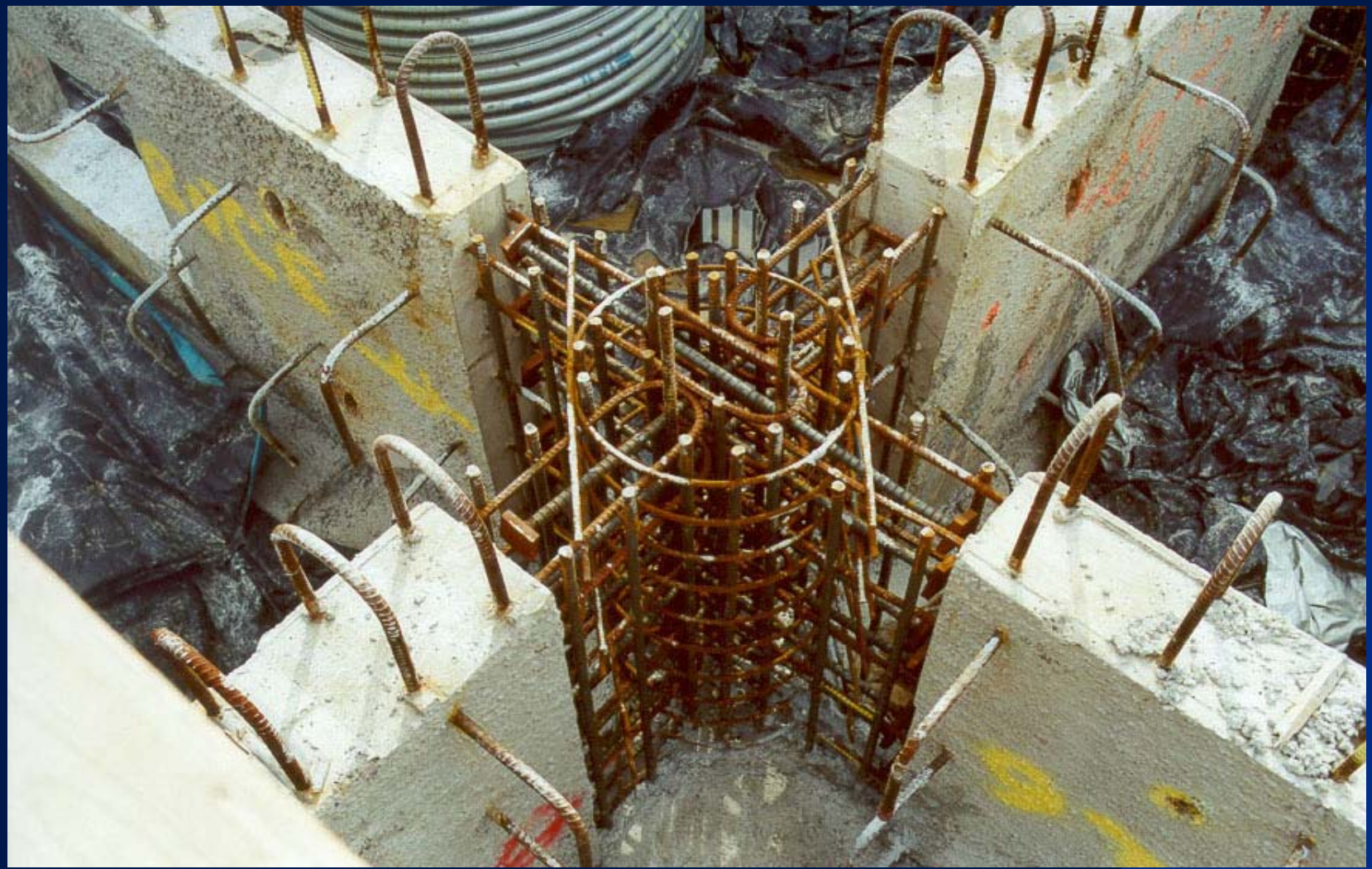



Ben C. Gerwick, Inc.

# Segment 2 Panel Erection

Ben C. Gerwick, Inc.

# Construction Joint



Ben C. Gerwick, Inc.

# Composite Interface

# Precast Panel Joint Detail


Ben C. Gerwick, Inc.

# Headed Reinforcement


Ben C. Gerwick, Inc.

# Transport of Segment 1

Ben C. Gerwick, Inc.

# Master Piles and Template for Cut-Off Wall

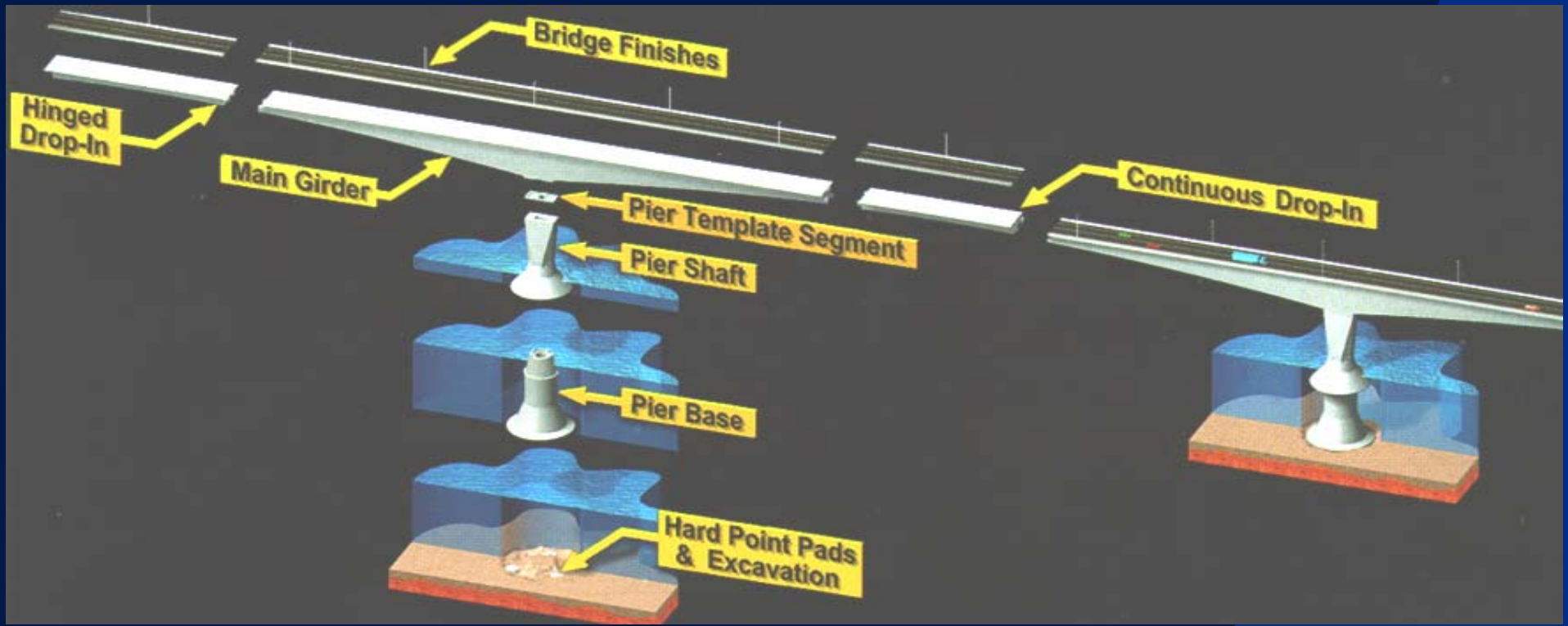

Ben C. Gerwick, Inc.

# Studs on Sheet Pile Cut-Off Wall


Ben C. Gerwick, Inc.

# Confederation Bridge

## - Positioning By Means of 3 “Hard Pads”




Ben C. Gerwick, Inc.

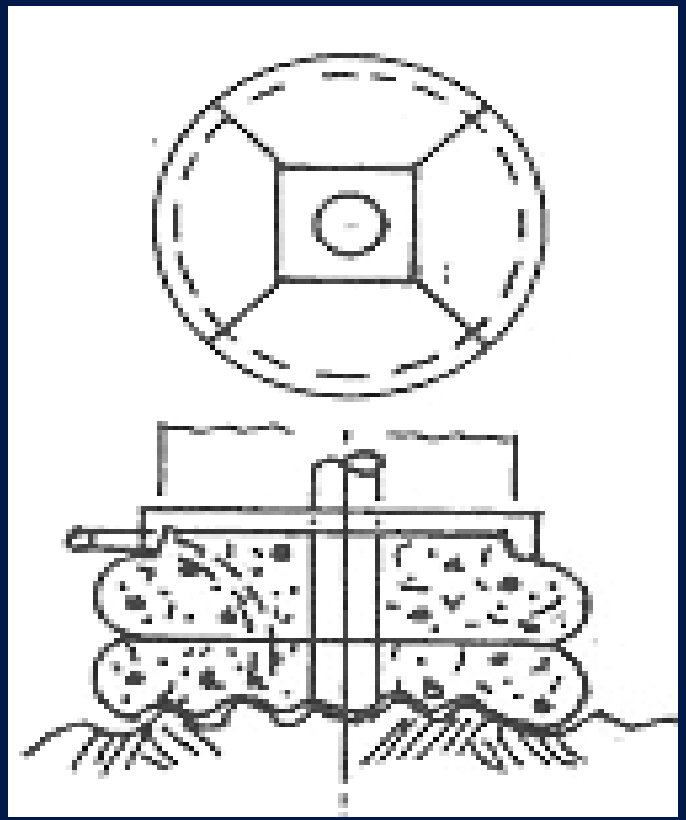
# Confederation Bridge
# - Placing 3 Hard Pads with a Frame

Ben C. Gerwick, Inc.

# Confederation Bridge

## - Leveling A Hard Pad with Inflated Grout Bags

## Pre-Construction Trial Testing



Ben C. Gerwick, Inc.